

Service Manual

● DEH-605RDS



ORDER NO. CRT1563

The chapter 1 of this Service Manual will not be reprinted. On your additional orders, we may supply only the chapter 2. For the chapter 1, please make copies and attach to the chapter 2 at your side if necessary.

HIGH POWER CD PLAYER WITH RDS TUNER

DEH-605RDS EW,X1B/EW HIGH POWER CD PLAYER WITH FM/MW/LW TUNER DEH-505SDK GR DEH-405SDK GR DEH-405SDK GR

- See the service manual CX-540(CRT1574) for the CD mechanism description, disassembly and circuit description.
- The CD mechanism employed in this model is one of CX-540 series.

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CHAPTER 1

● CD Plæss Service Precautions

- For pickup unit(CGY1031) handling, please refer to "Disassembly" (CX-540 Service Manual CRT1574).
 During replacement, handling precautions shall be taken to prevent an electrostatic discharge (protection by a short pin).
- 2. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.

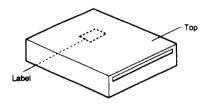
SAFETY INFORMATION

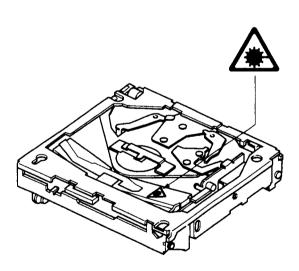
- 1. Safety Precautions for those who Service this Unit.
- Follow the adjustment steps (see pages 1-26 through 1-32)in the service manual when servicing this unit. When
 checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

Caution:

- 1. During repair or tests, minimum distance of 13cm from the focus lens must be kept.
- 2. During repair or tests, do not view laser beam for 10 seconds or longer.
- 2. A "CLASS 1 LASER PRODUCT" label is affixed to the rear of the player.
- 3. The triangular label is attached to the mechanism unit frame.







4. Specifications of Laser Diode

Specifications of laser radiation fields to which human access is possible during service.

Wavelength

= 785 nanometers

Radiant power =

69.7 microwatts(Through a circular aperture stop having a diameter of 80 millimeters)

0.55 microwatts(Through a circular aperture stop having a diameter of 7 millimeters)

1. SPECIFICATIONS

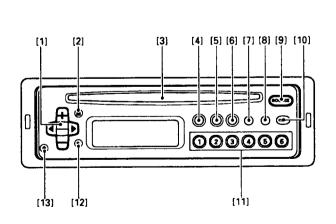
General	
Power source	14.4 V DC (10.8 - 15.6 V allowable)
Grounding system	Negative type
Max. current consumption	6 A
Dimensions (chassis)	\dots 178 (W) $ imes$ 50 (H) $ imes$ 150 (D) mm
(front face)	188 (W) \times 58 (H) \times 20 (D) mm
Weight	1.5 kg
Amplifier	
Max. power output	22 W × 4 (EIAJ)
Continuous power output.	14 W × 4
•	(DIN 45324, +B=14.4 V)
Load impedance	4Ω (4 — 8Ω allowable)
Preout output level/	
output impedance	500 mV/1 kΩ
Tone controls (bass)	±10 dB (100 Hz)
(treble)	±10 dB (10 kHz)
Loudness contour	+10 dB (100 Hz), +7 dB (10 kHz)
	(volume: -30 dB)
CD player	
System	Compact disc audio system
	Compact disc
Signal format	Sampling frequency: 44.1 kHz
<u> </u>	Number of quantization bits: 16; linear
Frequency characteristics.	5 — 20,000 Hz (±1 dB)
Signal-to-noise ratio	94 dB (1 kHz) (IEC-A network)
Dynamic range	
Number of channels	2 (stereo)

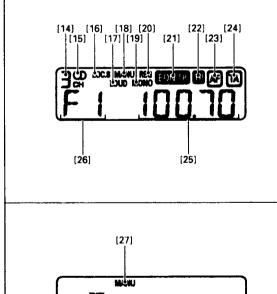
FM tuner Frequency range 87.5 — 108 MHz Usable sensitivity 11 dBf (1.0μV/75Ω, mono, S/N: 30 dB) 50 dB quieting sensitivity 16 dBf (1.7μV/75Ω, mono) Signal-to-noise ratio 70 dB (IEC-A network) Distortion 0.3% (at 65 dBf, 1 kHz, stereo) Frequency response 30 — 15,000 Hz (\pm 3 dB) Stereo separation 40 dB (at 65 dBf, 1 kHz)
MW tuner Frequency range 531 — 1,602 kHz Usable sensitivity 18μV (25 dB) (S/N: 20 dB) Selectivity 50 dB (±9 kHz)
LW tuner Frequency range 153 — 281 kHz Usable sensitivity 30μV (30 dB) (S/N: 20 dB) Selectivity 50 dB (±9 kHz)

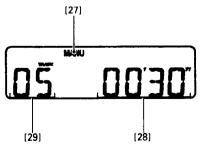
Note

Specifications and the design are subject to possible modification without notice due to improvements.

2. OPERATION AND CONNECTION







DEH-605RD8,5058DK,505,4058DK,405

Changing the Source

Parts Identification

[9] Source

Changing the Source

Each time the button [9] is pressed, the source will change in the following sequence:

Built-in CD player - Tuner - OFF

 If there is no disc in the built-in CD player, the source will not change to "built-in CD player".

Adjusting the Audio

Parts Identification

[1] Volume/Audio adjustment [12] Shift

[17] Loudness

Mode Selection

Each press of button [12] changes the mode as follows:

Volume adjustment (VOL) — Balance adjustment (FAD/BAL) — Tone adjustment (BAS/TRE) — Loudness adjustment (LOUD)

When you're adjusting fader, balance, bass or treble, the indicator will stop at the center setting. About 8 seconds after adjustment, the display returns to its previous state.

Volume Adjustment

Pressing the (+) side of button [1] increases the volume, while the (-) side decreases it. (Display shows "VOL 00" ~ "VOL 30".)

 When driving your vehicle, be sure to keep the volume of the unit set low enough to allow you to hear sounds coming from outside.

Balance Adjustment

Press button [12] to select balance adjustment mode. ("FAD" appears on the display.) Adjust the fader using the (+) or (-) side of button [1]. To adjust the balance, press either the (◄) or (►) side of button [1] to turn on BAL.

Fade

Press the (+) side of button [1] to raise the volume of the front speaker only. Press the (-) side of the button to raise the volume of the rear speaker only.

(Display shows "FAD F9" ~ "FAD R9".)

(Display shows "FAD F9" ~ "FAD H9".)
 Please set "FAD 0" when using 2 speaker system.

Balance

Pressing the (◀) side of button [1] shifts the balance to the left speaker, while the (►) side shifts it to the right speaker. (Display shows "BAL L9" ~ "BAL R9".)

Tone Adjustment

Press button [12] to select tone adjustment mode. ("BAS" appears.) Select the tone you wish to adjust using the (◄) or (►) side of button [1]. Each press of the (►) side changes the tone from BAS → TRE, while each press of the (◄) side changes the tone from TRE → BAS.

Bass Adjustment

Select the Bass mode.

Pressing the (+) side of button [1] increases bass, while the (-) side decreases bass.

(Display shows "BAS -6" ~ "BAS +6".)

Treble Adjustment

Select Treble adjustment mode.

Pressing the (+) side of button [1] increases treble, while the (-) side decreases treble.

(Display shows "TRE -6" ~ "TRE +6".)

Loudness Adjustment

This "loudness" function enhances both the high and low ranges of sound to give even more power to output even at low volume.

Press button [12] to select loudness adjustment mode. (The "LOUD" indicator appears on the display.)
Pressing the (►) side of button [1] turns the

loudness function on (LOUD [17] light up), pressing the (◄) side turns it off.

Using the Tuner

Parts Identification

- [1] Tuning Seek/Manual Local Seek Sensitivity
- [4] Local mode
- [5] BSM/Preset Scan
- [6] FM Monaural
- [7] AF/REG
- [8] TA/EON
- [9] Source
- [10] Band (11) Preset
- [14] Preset Number
- [15] FM Stereo
- [16] Local mode
- [18] Manual
- [19] FM Monaural
- [20] REG [21] EON
- [22] TP
- [23] AF
- (24) TA
- [25] Frequency
- [26] Band

Electronic Tuner

Frequency allocation differs depending upon the area. This unit has been designed in accordance with the frequency allocations for Western Europe, Asia, the Middle and Near East, Africa, Australia and Oceania. Use in other areas may result in improer reception of AM. The RDS function does not work in regions with no RDS broadcast services.

Listening to the Radio

- 1.Set the source to "tuner" by pressing button (9).
- For details, refer to "Changing the Source" on page 1-4.
- 2. Select the band by pressing button [10]. Each time the button is pressed, the band will change in the following sequence: FM1 → FM2 → FM3 → MW/LW • MW and LW are combined in one band.
- 3.Use seek tuning or manual tuning to tune to a radio station.
- 3-1. Set the tuning mode to "seek" or "manual" by pressing the (◄) and (►) sides of button [1] simultaneously. Repeat this operation to switch to the other tuning mode. (When the manual tuning mode is set, "MANU" [18] will be displayed.)

3-2. Tune by Press (◄) or (►) of button [1]. (When there is a stereo broadcast, (15) will be displayed.)

Seek Tuning:

When the button is pressed, stations whose signal strength is above a certain level will be tuned automatically.

Manual Tuning:

When the button is pressed, the frequency will change by one step up or down.

Using the Preset Memory

The radio stations can be stored in memory under buttons 1 to 6 of [11].

- 1. Tune in to the station to be stored in memory.
- 2. Store the station in memory by pressing one of the buttons (1 to 6) for at least 2 seconds. When the [14] number stops blinking, the station will be stored in memory under the button pressed.

 • Up to 18 FM stations and 6 MW/LW
 - stations can be stored in memory.

Preset Tuning

The radio stations stored in memory can be recalled by pressing the respective button 1 to 6 of [11]. The station stored under that button will be recalled. (The number of the button pressed will be displayed at [14].)

Using the Best Stations Memory (BSM)

The radio stations having a strong signal can be tuned automatically and stored in memory under buttons 1 to 6 [11]. Press button [5] for at least 2 seconds. (The "BSM" will blink.) After "BSM" stops blinking, the stations will be stored in memory under buttons 1 to 6 of [11].

- BSM can be canceled mid-operation by pressing button [5].
- The stations will be stored under buttons 1 to 6 in the order of their signal strength. The strongest station will be stored under button 1, followed by stations with lower signal strengths.
- If there are fewer than 6 stations whose signal is strong, there will be spare
- It will take almost 30 seconds for BSM to be completed.

Preset Scan Tuning

This recalls in sequence all the stations stored in memory under the buttons [11] for 8 seconds each. Press button [5]. (The [14] number will blink.) To cancel, press the button again. After the desired station is tuned, cancel the preset scan tuning. The station will then continue to be received.

Stations stored in memory under the buttons [11] but whose signal is weak will not be recalled.

Local Seek Tuning

When the local mode is set, the seek tuning's sensitivity level will become high and only stations with a strong signal will be seek tuned. The local mode's seek sensitivity can be adjusted.

Setting the Local Mode

Press button [4]. (The "LOC.S" [16] will light.) To cancel the local mode, press the button again.

DEH-605RD8,5059DK,505.4058DK.405

Adjusting the Local Seek Sensitivity

There are 4 local seek sensitivity steps for FM and 2 steps for MW/LW.

- LOC-4 is the highest seek tuning sensitivity level. Only the stations with a strong signal are tuned. LOC-3, LOC-2, and LOC-1 in descending order enables the tuning of stations with a respectively weaker signal.
- Set to local seek sensitivity adjustment mode. Press button [4] for at least 2 seconds. (The current sensitivity level "LOC-2" will be displayed.)
 - The local seek sensitivity adjustment mode will be canceled after about 5 seconds.
- 2.Adjust the sensitivity level by pressing (◄) or (►) of button [1].

FM Monaural Reception

If a stereo broadcast has a lot of noise, switching to the monaural reception mode will reduce the noise. Press button [6]. ("MONO" [19] will appear on the display.) To cancel, press the button again.

Playing Compact Discs

Parts Identification

- [1] Track Number Search Fast Forward and Reverse
- [2] Eject
- [3] Disc Insertion Slot
- [9] Source
- [11] ① Pause
 - 2 Repeat
 - 3 Random play
- [27] Manual
- [28] Playback time
- [29] Track number

Discs

 Only use compact discs (optical digital audio discs) bearing the mark shown below.



- Do not use cracked, scratched, or warped discs.
- Do not touch the disc's playing side.
 Handle the disc as shown below.



- · Do not affix any label on the disc.
- Do not apply any vinyl record spray, antistatic agent, benzene, paint thinner, or any other volatile chemicals.

 Do not play a dirty disc. Use a soft cloth to clean a dirty disc as shown below.
 Wipe the disc outward from the center.



- Do not place the disc in high temperatures and direct sunlight.
- · Be sure to store the disc in its case.

CD Playing Environment

- Disc playback may be interrupted by sudden road shock.
- When the air temperature is low and the car heater is turned on, condensation on the disc and internal parts of the unit may prevent proper playback operation. If this happens, turn off the unit and wait one hour until the condensation is gone. Also, use a soft cloth to wipe off any condensation from the disc.

Listening to the CD Player

- 1. With the label side up, insert a disc into
 [3]. Playback will start. (The track number
 [29] and playback time [28] will be
 displayed.)
- Do not insert the disc with the label side down. Doing so may scratch the disc.
- If the disc stops midway while it is being inserted or if there is no playback after a disc is inserted, something may be wrong with the disc. Eject the disc and check it.
- Turn ON/OFF the disc playback. Press button [9] to change the source.
- For details, refer to "Changing the Source".

3. Eject the disc by pressing button [2].

 Do not leave the disc halfway into the unit as shown below. Doing so may cause the disc to be bent or dropped.



Using Track Number Search, Fast Forward and Reverse

- 1.Set the mode to "track number search" or "fast forward and reverse".

 Press the (◄) and (►) sides of button [1] simultaneously. Each time this is repeated, the mode will switch between the track number search mode and fast forward and reverse mode. (When the fast forward and reverse mode is set, "MANU" [27] will light.)
- Execute a track number search or fast forward and reverse by pressing (◄) and (►) of button [1].
- Playback sound can be heard during fast forward and reverse.

Pausing

The disc playback can be stopped temporarily by pressing ① of button [11]. (The "PAUSE" will be displayed.) To cancel the pause, press the button again.

Repeat

- 1.To repeat the music you are listening to, press button ② of [11] ("RPT" will appear on the display).
- 2.To cancel music repeat, press button ② of [11] to turn off "RPT".

Random Play

- 1.To play music randomly, press button ③
 of [11] ("RDM" will appear on the
 display). Once the current track has been
 played, the microprocessor will randomly
 select the next and subsequent tracks.
- 2.To cancel random play, press button ③ of [11] to turn off "RDM".
- Since selections are played in random order, the same selection may be played twice in succession.

Error Display

If there is a problem with CD playback, an error code will be displayed.

(Ex.: "ERROR-10")

If an error is displayed, refer to the table below to identify the problem. If the error is displayed even after corrective action is taken, contact your dealer or the nearest authorized PIONEER Service Station.

- D: Display
- C: Cause
- T: Treatment
- D: ERROR-11, 12, 14, 17, 30
- C: The disc is dirty.
- T: Clean the disc.
- D: ERROR-11, 12, 17, 30
- C: The disc is scratched.
- T: Replace the disc.
- D: ERROR-11, 14, 17
- C: The disc is inserted with the label side down.
- T: Insert the disc with the label side up.
- D: ERROR-14
- C: An unrecorded CD-R is being used.
- T: Check the disc.

D: Display

C: Cause

- T: Treatment
- D: ERROR-10, 11, 12, 14, 17, 30, A0
- C: Electrical or mechanical fault.
- T: Turn off the car's ignition and turn it back on again. Or change the source to another one and then change it back to CD.
- D: HEAT
- C: The CD player's internal temperature is high.
- T: Wait until the CD player's internal temperature goes down.

Additional Functions

Parts Identification

[12] Illumination

Switching Illumination Color

The illumination color can be set to amber or green.

Press button [12] for at least 2 seconds. Repeat this operation to switch between amber and green.

Connecting the Units

Note:

- This unit is for vehicles with a 12-volt battery and negative grounding. Before installing it in a recreational vehicle, truck, or bus, check the battery voltage.
- To avoid shorts in the electrical system, be sure to disconnect the battery

 cable before beginning installation.
- After completing installation and wiring, double check that there are no mistakes.
 Re-install any parts removed from the car during installation, then connect the battery negative terminal.
- Refer to the owner's manual for details on connecting the various cords of the power amp and other units, them make connections correctly.
- Secure the wiring with cable clamps or adhesive tape. To protect the wiring, wrap adhesive tape around them where they lie against metal parts.
- Route and secure all wiring so it cannot touch any moving parts, such as the gear shift, handbrake, and seat rails. Do not route wiring in places that get hot, such as near the heater outlet. If the insulation of the wiring melts or gets torn, there is a danger of the wiring short-circuiting to the vehicle body.
- Don't pass the orange lead through a hole into the engine compartment to connect to the battery. This will damage the lead insulation and cause a very dangerous short.
- Do not shorten any leads. If you do, the protection circuit may fail to work when it should.
- Never feed power to other equipment by cutting the insulation of the power supply lead of the unit and tapping into the lead. The current capacity of the lead will be exceeded, causing over heating.
- When replacing fuses, be sure to use only fuses of the rating prescribed on the fuse holder.
- Since a unique BPTL circuit is employed, never wire so the speaker leads are directly grounded or the left and right speaker

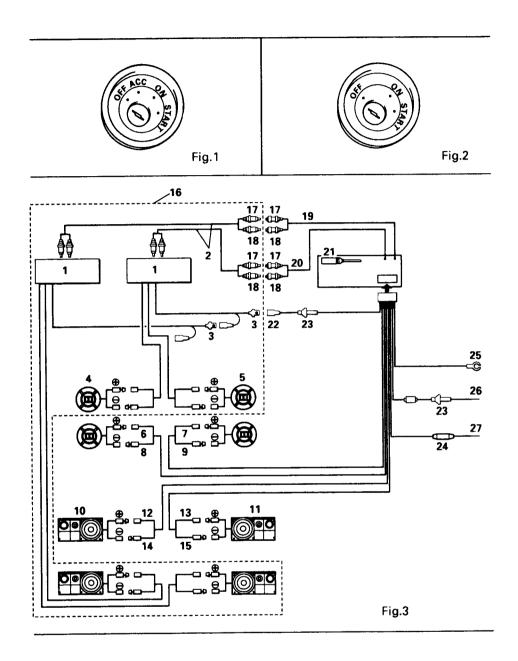
 leads are common.
- Speakers connected to this unit must be high-power type possessing maximum input of at least 22 W and impedance of 4 to 8 ohms. Connecting speakers with output and/or impedance values other than those noted here can damage the speakers.

- When the power amp is being linked with this system, be sure not to connect the blue lead to the amp's power terminal. Likewise, when linking this system with the auto-antenna, do not connect to power terminal for the antenna. Such connection can make overcurrent cause malfunctions.
- When the unit is mounted in a vehicle whose ignition switch does not have the ACC (accessory) position as shown in Fig. 2, be sure to connect the red lead of the unit to the terminal controlled by the ignition switch ON/OFF position. If you do not, the vehicle battery may go flat when you leave your vehicle for several hours.

(Fig. 1: ACC position/Fig. 2: No ACC position)

Connection Diagram (Fig. 3)

- 1. Power amp (sold separately)
- Connecting cords with RCA pin plugs (sold separately)
- 3. Blue
- 4. Front/left speaker
- 5. Front/right speaker
- 6. Green
- 7. Gray
- 8. Green/black
- 9. Gray/black
- 10. Rear/left speaker
- 11. Rear/right speaker
- 12. Green/red
- 13. Gray/red
- 14. Black/green
- 15. Black/gray
- Connected only when the optional amplifier is used. Nothing is connected when operating the built-in amplifier itself.
- 17. White
- 18. Red
- 19. Rear out
- 20. Front out (DEH-605RDS, DEH-405 and DEH-405SDK do not have this terminal.)
- 21. Antenna jack
- 22. Blue
 - To system control terminal of the power amp or Auto-antenna relay control terminal (Max. 300 mA 12 V DC).
- 23. Fuse holder
- 24. Fuse resistor
- 25. Black (ground)
- To vehicle (metal) body.
- 26. Orange
 - To terminal always supplied with power regardless of ignition switch position.
- 27. Red
 - To electric terminal controlled by ignition switch (12 V DC) ON/OFF.



3. DISASSEMBLY

Removing the Case

- 1.Remove the three screws.
- 2.Insert and turn a flat screwdriver at locations indicated by arrows to remove the case.

● Removing the Detach Grille Assy

1.Press the detach button, and then pull detach grille Assy.

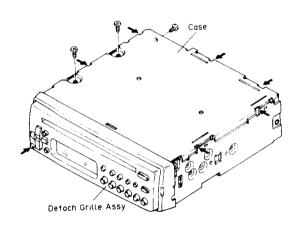


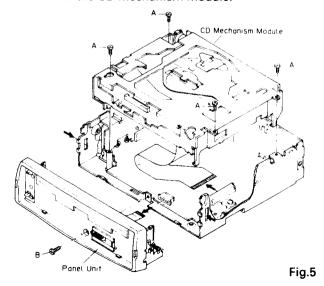
Fig.4

Removing the Panel Unit

- 1.Remove the screw B and disconnect the two stoppers indicated by arrows.
- 2.Disconnect the connector.

Removing the CD Mechanism Module

- 1.Remove the four screws A.
- 2.Disconnect the connector.
- 3.Remove the CD Mechanism Module.



● Removing the Chassis Unit

- 1.Remove the two screws C.
- 2.Remove the screw D and E.
- 3.Remove the screw F and then remove the holder.
- 4.Stretch the four claws.
- 5.Remove the chassis Unit

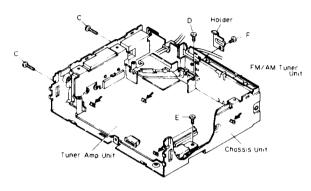
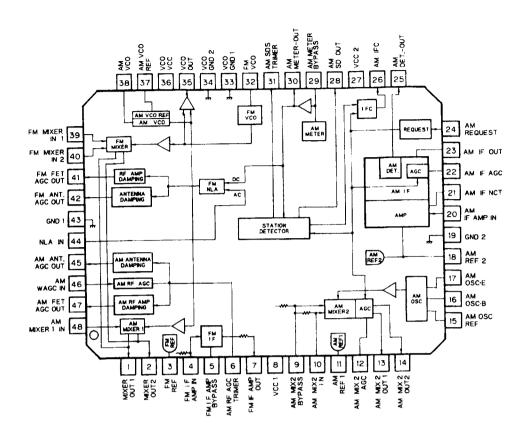
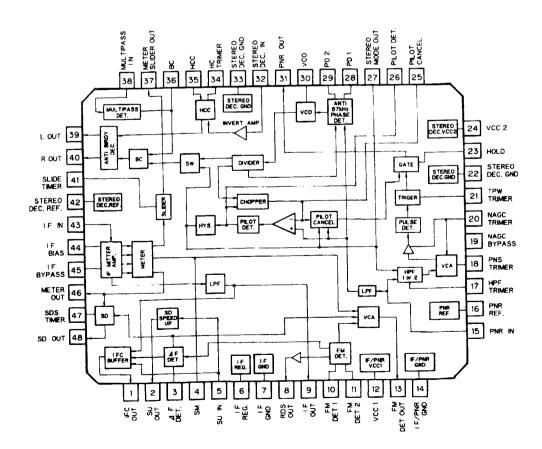


Fig.6

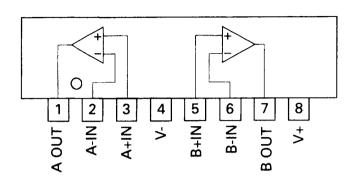
● ICs PA2021B



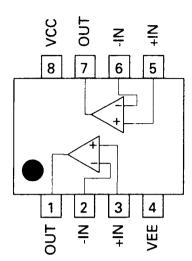
PA2022A



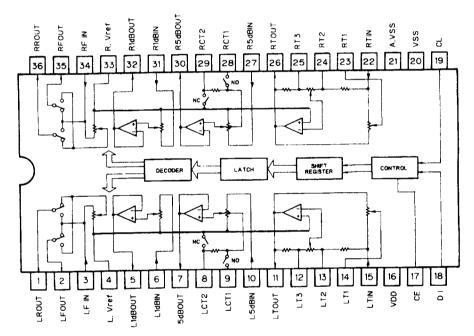
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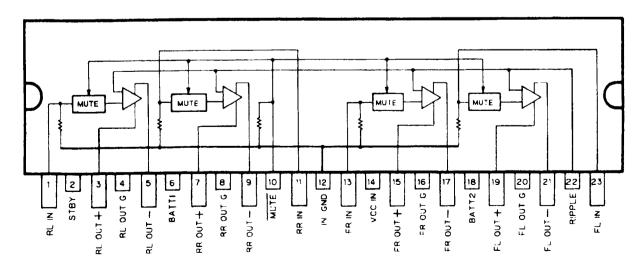
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*LC7538JMHS



PA3029A

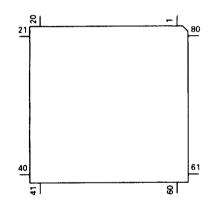


Pin	Functions	(PDR009B)

Pin Funct	ions(PDR009E			
Pin No.	Pin Name	I/O	Output Format	Function and Operation
1–3	KD3-KD1	1		Analog key input
4	AVSS	Ī		A/D coverter GND
5,6	NC			Not used
7	AVREF1	i		D/A converter reference voltage
8	LCE	Ō		Chip enable output for LCD driver
9	LDT	0	С	Data output for LCD driver
10	RST	ō	Č	LSI reset output
11,12	NC	<u> </u>	 	Not used
	SK	 		SK signal input
13		Ö		Control signal distinguishing data from microcomputer
14	XA0	0	c	LSI data output
15	XSTB	<u> </u>	 	LSI data input
16	XSI	 	 	LSI data input
17	XSO	0_	C	LSI clock output
18	XSCK	0		
19	CONT	0	C	Servo driver power supply control
20	LOAD	0	C	Loading motor LOAD control
21	EJET	0	С	Loading motor EJECT control
22	CD5VON	0	C	CD +5V control
23	NC			Not used
24	CDMUTE	0	C	CD mute output
25	TMUTE	0	С	Tuner mute output
26	VDCONT	0	С	VD control input
27	FOK	ī		FOK signal input
28	MIRR			Mirror detector input
29	LOCK		1	Spindle lock detector input
30	CLAMP	 		Disc clamp sense input
31	HOME	 '	С	Home position detector input
	FECNT	0	C	FE output control pin
32		0	 	GND
33	VSS	ļ <u>.</u>		VD over voltage sense input
34	VDSENS		+	Loading motor driver power supply
35	VMC	0	С	
36	NC	<u> </u>		Not used
37	ADENA	0	N	A/D converter reference voltage output
38	NC		 	Not used
39	CDPW	0	N	CD power control
40	LCK	0		Clock output for LCD driver
41	SYSPW	0	C	System power supply control output
42	BLGTA	0_	С	LCD back light amber control output
43	BLGTG	0	С	LCD back light green control output
44	SWVDD	0	С	Key board unit power supply control output
45	PEE	0	С	Beep tone output
46	VDT	Ö	С	Data output for electronic volume
47	VST	ő	C	Strobe pulse output for electronic volume
48	VCK	 0	C	Clock output for electronic volume
49	PCL	0	C	Clock adjustment output
	FM/AM	0	C	FM/AM power select output
50		0	C	Forced mono output
51	MONO	+	+	Model select input
52-55	SIMK0-3	+ - ;	+	
56	MUTE	0_	C	Mute output
57	NC	 		Not used
58	DK	 	_	DK signal input
59	SD	1		SD input
60	RESET			Reset input
61	REMIN	I		Remote control signal input
62	BSENS			Back up power sense input
63	ASENS	1		ACC power sense input
64	PDI	1		PLL data input
		_ _		

Pin No.	Pin Name	1/0	Output	Function and Operation
		<u> </u>	Format	
65	PDO	0	С	Data output for PLL IC
66	PCK	0	С	Serial clock output for PLL IC
67	PCE	0	С	Chip enable output for PLL IC
68	VDD			Power supply
69,70	X2,X1			Crystal oscillator connection pin
71	IC			Connect to GND
72	XT2		}	Not used
73	TESTIN	1		Test program start input
74	AVDD			Positive power supply terminal for analog circuit
75	AVREF0	1		A/D converter reference voltage
76	SL	1		SD level input from tuner
77	TEMP	1		Temperature detector
78	DINC	1		Disc insert sense input
79	EJTD	Î		Disc eject position sense input
80	KD0			Analog key input

*PDR009B

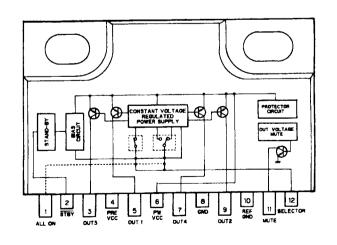


Output Format	Meaning
С	CMOS
N	N channel open drain

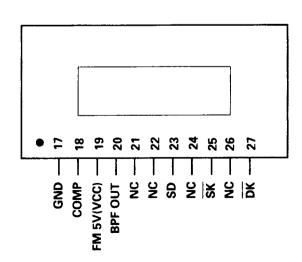
IC's marked by* are MOS type.

Be careful in handing them because they are very liable to be damaged by electrostatic induction.

PA2023A



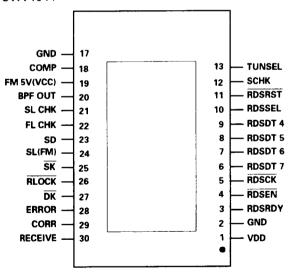
CWV1045



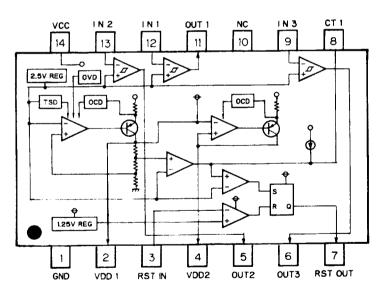
● Pin Functions (CWV1044)

Pin No.	Pin Name	1/0	Function and Operation
1	VDD		Power supply for RDS controller
2	GND		GND
3	RDSRDY	ı	Ready input from system control IC
4	RDSEN	0	Enable output for system control IC
5	RDSCK		Serial clock input from system control IC
6-9	RDSDT 7-4	1/0	Data input/output to system control IC
10	RDSSEL	1	Select input from system control IC
11	RDSRST	_	Reset input from system control IC
12	SCHK		Unit check input
13	TUNSEL	1	FM/AM tuner unit select input
14-16	VACANT		
17	GND		GND
18	COMP	ı	FM composite signal input
19	FM 5V(VCC)		Power supply decoder
20	BPF OUT	0	Band pass filter test output
21	SL CHK	0	SL check output
22	FL CHK	0	FL check output
23	SD	1	RDS decode control input
24	SL(FM)	1	Signal level input from tuner
25	SK	1	SK signal detect input
26	RLOCK	0	RDS test output
27	DK	0	DK signal detect output
28	ERROR	0	Disapprove of error correction output
29	CORR	0	Error output
30	RECEIVE	0	RDS synchronizing test output

CWV1044



PAJ001A

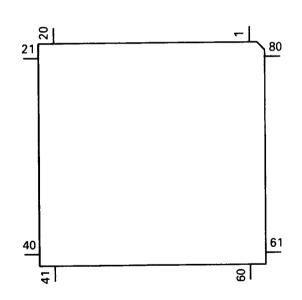


● Pin Functions(PD4483B)

Pin No.	ons(PD4483E Pin Name	1/0	Output Format	Function and Operation
 1 	NC	 	Tomat	Not used
2	RDSRST	Ö	С	Reset output for RDS IC
3	RDSSEL	ō	C	Select output for RDS IC
4	AVSS	l ĭ	1	A/D coverter GND
5	ROSEN	Ö	С	Enable output for RDS IC
6	RDSRDY	Ī		Ready input from RDS IC
7	AVREF1			D/A converter reference voltage
8	KYDT	1		Key data input
9	DPDT	0	С	Display data output
10	RST	0	С	LSI reset output
11	RDSDI	1		Serial data input for RDS IC
12	RDSDO	0	С	Serial data output for RDS IC
13	RDSCK	0	С	Serial clock output for RDS IC
14	XA0	0		Control signal distinguishing data from microcomputer
15	XSTB	0	С	LSI strobe output
16	XSI	1		LSI data input
17	XSO	0	C	LSI data output
18	XSCK	0	C	LSI clock output
19	CONT	Ö	С	Servo driver power supply control
20	LOAD	0	С	Loading motor LOAD control
21	EJET	0	С	Loading motor EJECT control
22	CD5VON	0	С	CD +5V control
23	NC	<u>.</u>		Not used
24	CDMUTE	0	С	CD mute output
25	TMUTE	0	С	Tuner mute output
26	VDCONT	0	С	VD control input
27	FOK	<u> </u>		FOK signal input
28	MIRR	1 1	<u> </u>	Mirror detector input
29	LOCK	<u> </u>	ļ	Spindle lock detector input
30	CLAMP	<u> </u>	 	Disc clamp sense input
31	HOME	 	C	Home position detector input
32	FECNT	0	 	FE output control pin GND
33	VSS	 		
34	VDSENS	+ -	С	VD over voltage sense input Loading motor driver power supply
35	VMC	0	<u> </u>	Not used
36	NC ACENIA	0	N.	A/D converter reference voltage output
37	ADENA NC	ļ <u> </u>	N	Not used
38	CDPW	0	N	CD power control
39	NC NC	-	10	Not used
40	SYSPW	0	С	System power supply control output
42	BLGT	0	C	LCD back light control output
43	VLCDPW	ō	c	Power supply control output for LCD
43	SWVDD	0	c	Key board unit power supply control output
45	PEE	0	C	Beep tone output
46	VDT	0	C	Data output for electronic volume
47	VST	0	C	Strobe pulse output for electronic volume
48	VCK	Ö	c	Clock output for electronic volume
49	PCL	ō	C	Clock adjustment output
50	FM/AM	ō	C	FM/AM power select output
51	MONO	Ö	C	Forced mono output
52-55	NC	 		Not used
56	MUTE	0	С	Mute output
57	NC			Not used
		t	T	Not used
58	NC	1	1	NOT USEU
58 59	NC SD			SD input

Pin No.	Pin Name	1/0	Output	Function and Operation
			Format	N
61	NC	ļ		Not used
62	BSENS			Back up power sense input
63	ASENS	<u> </u>		ACC power sense input
64	PDI	I		PLL data input
65	PDO	0	С	Data output for PLL IC
66	PCK	0	С	Serial clock output for PLL IC
67	PCE	0	С	Chip enable output for PLL IC
68	VDD			Power supply
69,70	X2,X1			Crystal oscillator connection pin
71	IC			Connect to GND
72	XT2			Not used
73	TESTIN	ı		Test program start input
74	AVDD			Positive power supply terminal for analog circuit
75	AVREF0	ı		A/D converter reference voltage
76	SL	ı		SD level input from tuner
77	TEMP	ı		Temperature detector
78	DINC	Ī		Disc insert sense input
79	EJTD	Ī		Disc eject position sense input
80	DSENS	1		Grille detach sense

*PD4483B

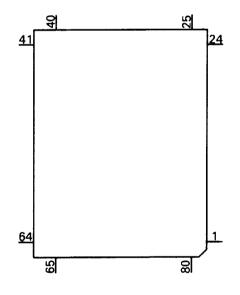


Output Format	Meaning
С	CMOS
N	N channel open drain

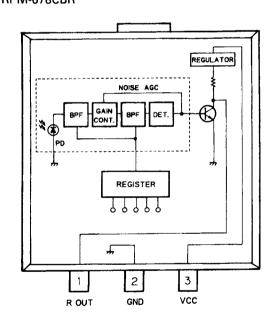
● Pin Functions (PD6122A)

	ICHOIIS (FDOI		
Pin No.	Pin Name	1/0	Function and Operation
1	VSS		GND
2	X1		Crystal oscillator connection pin
3	X0		Crystal oscillator connection pin
4	RESET	_	Reset Input
5,6	MOD1,0	1	Model select input
7	DILMX	0	Function LED select output
8	KYDT	0	Key data output
9	DPDT		Display data input
10	REMIN		Remote control pulse input
11	SILMO	0	Illumination color select output
12	SILMG	0	Function LED select output
13-16	KD4-KD1	_	Key sense input
17-22	KDT6-1	0	Key strobe output
23	VDD		5V
24-34	NC		Not used
35–73	SEG38-0		LCD segment output
74-77	COM3-0	0	LCD common output
78-80	VLCD-V1		Power supply terminal

*PD6122A



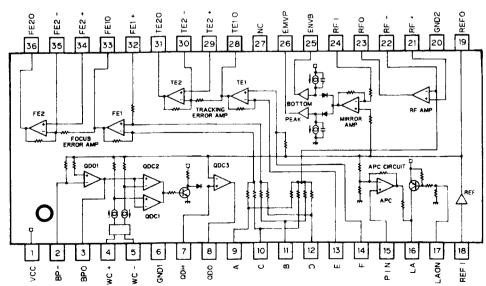
*RPM-678CBR



Pin Functions(UPC2571GS)

Pin Functi	ons(UPC257	1GS)	
Pin No.	Pin Name	I/O	Function and Operation
1	VCC		VCC
2	BP-	1	TE zero cross amplifier input
3	BPO	0	TE zero cross amplifier output
4	WC+		Not used
5	WC-		Not used
6	GND1		GND
7	QDH		Not used
8	QDO		Not used
9	Α		A signal input
10	С		C signal input
11	В	ı	B signal input
12	D	1	D signal input
13	E	1	E signal input
14	F	l	F signal input
15	PIN	1	APC amplifier input
16	LA	0	APC amplifier output
17	LAON		APC amplifier ON/OFF switching
18	REFI		Reference voltage input
19	REFO	0	Reference voltage output
20	GND2		GND
21	RF+	_	RF amplifier non-inverting input
22	RF-		RF amplifier inverting input
23	RFO	0	RF amplifier output
24	RFI		Not used
25	ENVB		Not used
26	ENBP		Not used
27	NC		Non connection
28	TE10	0	Tracking error amplifier 1 output
29	TE2+		Tracking error amplifier 2 non-inverting input
30	TE2-		Tracking error amplifier 2 inverting input
31	TE2O	0	Tracking error amplifier 2 output
32	FE1+	- 1	Focus error amplifier 1 non-inverting input
33	FE1O	0	Focus error amplifier 1 output
34	FE2+	l	Focus error amplifier 2 non-inverting input
35	FE2-	l	Focus error amplifier 2 inverter input
36	FE2O	0	Focus error amplifier 2 output

UPC2571GS

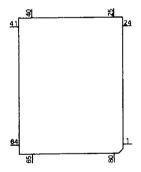


● Pin Functions(UPD63700GF)

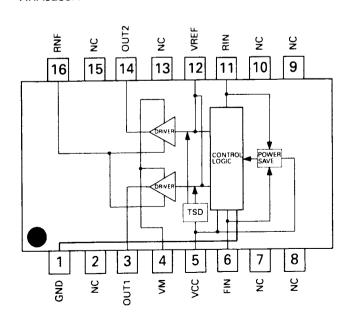
Pin Functi	ons(UPD6370		
Pin No.	Pin Name	1/0	Function and Operation
1	D.GND		Logic circuit GND
2	RFOK	0	RFOK detection signal output terminal
3	MIRR	0	MIRR detection signal output terminal
4	TBC		Tracking filter bank switching terminal
5	HOLD	1	Hold control signal input terminal
6	D.VDD		VDD for logic circuit
7	RST	1	System reset
8	AO	ı	Control signal distinguishing data from microcomputer
9	STB	ī	Signal latching serial data inside LSI
10	SCK	1	Clock input terminal for serial data input and output
11	so	0	Serial data and status signal output
12	SI		Serial data input
13	TM2	i	Double speed playback control terminal
14	D.GND		Logic circuit GND
15	TEST		Test terminal
16	STBY		Stand-by input terminal
17	CTLV	- i	Control terminal for clock generation VCO used by digital PLL in double speed
''	CILV	ı	playback mode
	POLIT	0	Output terminal for phase comparison between EFM signal and bit clock
18	POUT		Logic circuit GND
19	D.GND		
20	VCO		Inverter input
21	VCO	0	Inverter output
22	D.VDD		VDD for logic circuit
23	PLCK	0	Bit clock monitor terminal
24	LOCK	0	"H" when synchronization signal and frame counter output coincide at EFM
			demodulator
25	WFCK	0	Signal issuring one-frame period by bit clock dividing signal
26	RFCK	0	Oscillation clock divider signal, output pin for signal giving 1-frame sync.
27	C4M	0	Output terminal for signal having four the frequency of LRCK
28	C16M	0	Oscillation clock output terminal
29	D.GND		Logic circuit GND
30	XTAL	- 1	Oscillation continuation terminal
31	XTAL	0	Oscillation continuation terminal
32	D.VDD		VDD for logic circuit
33	SCKO	Ó	Clock output terminal for audio serial data
34	LRCK	0	Signal distinguishing between left and right channel DOUT terminal output
35	DOUT	0	Serial audio data output terminal
36	TX	0	Digital audio interface data output terminal
37	FLAG	0	Flag signal indicating that the current audio data output of incorrectable data
38	EMPH	0	Emphasis information output
39	WDCK	Ö	Output terminal for signal having double the frequency of LRCK
40	C2D3	ō	Output terminal indicating C2 error correction status
41	SFSY	0	Signal indicating subcode one-frame synchronization
42	SBSY	0	Signal indicating head of subcode block
42	SBSO	0	Subcode data output terminal
	SBCK	1	Subcode data read clock input terminal
44	D.GND	'	Logic circuit GND
45		0	Output terminal indicating C1 error correction status
46,47	C1D1,C1D2		Output terminal indicating C1 error correction status Output terminal indicating C2 error correction status
48,49	C2D1,C2D2	0	Selects between focus and tracking modulation mode
50	T4	1	Selects motor PWM output mode
51	T5	1	
52	T6	<u> </u>	Sets focus PWM output mode
53	T7		Sets tracking PWM output mode
54	D.VDD	<u> </u>	VDD for logic circuit
55	MRD	0	PWM negative output terminal for the spindle loop filter
56	MFD	0	PWM positive output terminal for the spindle loop filter
57	SRD	0	PWM negative output terminal for the thread loop filter
58	SFD	0	PWM positive output terminal for the thread loop filter

Pin No.	Pin Name	1/0	Function and Operation
59	D.GND		Logic circuit GND
60	TRD	0	PWM negative output terminal for the tracking loop filter
61	TFD	0	PWM positive output terminal for the tracking loop filter
62	FRD	0	PWM negative output terminal for the focus loop filter
63	FFD	0	PWM positive output terminal for the focus loop filter
64	D.VDD		VDD for logic circuit
65	OUTSEL	ı	Sets PWM output mode for the motor system
66	TEC1	l I	Tracking error input terminal
67	TEC0	I	Tracking error input terminal
68	A.VDD		VDD for analog circuit
69,70	VR2,VR1	ŀ	A/D converter input
71	TE	1	Tracking error input terminal
72	FE	1	Focus error input terminal
73	RFB		RFB signal input terminal
74	RFP		RFP signal input terminal
75	A.GND		Analog circuit GND
76	REFOUT	0	A/D converter midpoint voltage output terminal inside LSI
77	RFI	i	RF signal input terminal for EFM comparator
78	ASI	i	Level comparing input for RF signal comparison
79	EFM	0	EFM signal output terminal
80	A.VDD		VDD for analog circuit

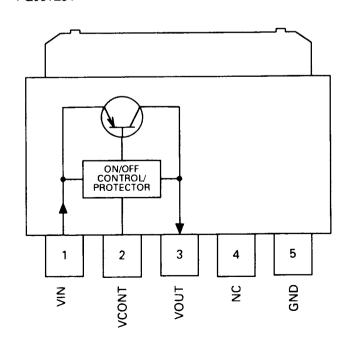
*UPD63700GF



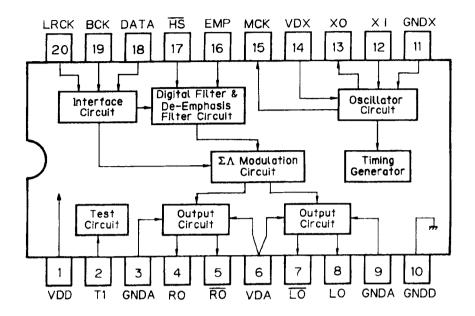
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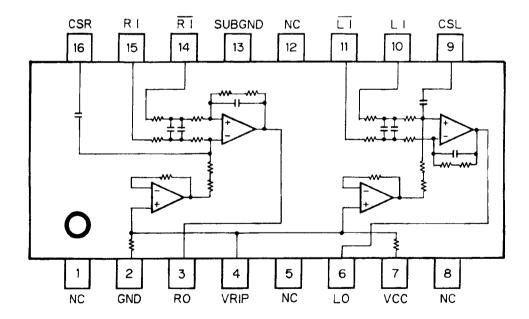
PQ05TZ51



*TC9268F



TA2063F



4. ADJUSTMENT

4.1 CD PLAYER SECTION

1)Precautions

This unit uses a single power supply (+5V) for the regulator. The signal reference potential, therefore, is connected to REFO(approx. 2.5V) instead of GND.
 If REFO and GND are connected to each other by mis-

If REFO and GND are connected to each other by mistake during adjustments, not only will it be impossible to measure the potential correctly, but the servo will malfunction and a severe shock will be applied to the pick-up. To avoid this, take special note of the following.

Do not connect the negative probe of the measuring equipment to REFO and GND together. It is especially important not to connect the channel 1 negative probe of the oscilloscope to REFO with the channel 2 negative probe connected to GND.

Since the frame of the measuring instrument is usually at the same potential as the negative probe, change the frame of the measuring instrument to floating status

If by accident REFO comes in contact with GND, immediately switch the regulator or power OFF.

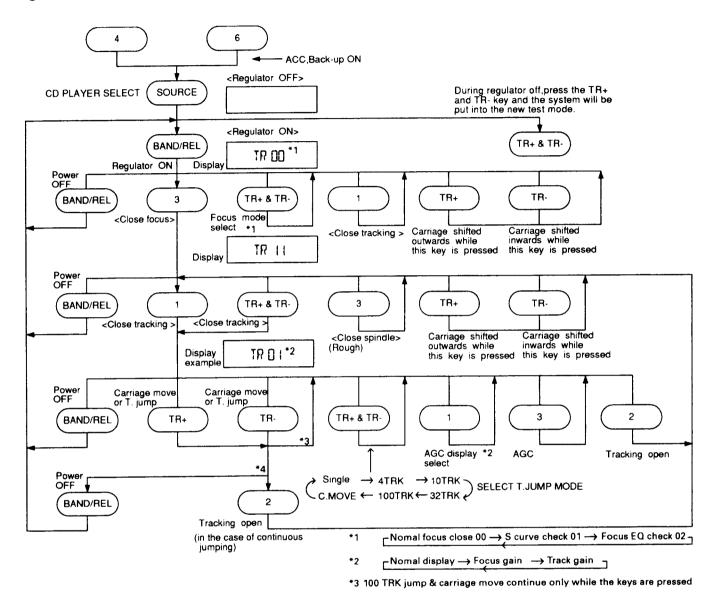
- Always make sure the regulator is OFF when connecting and disconnecting the various filters and wiring required for measurements.
- Before proceeding to further adjustments and measurements after switching regulator ON,let the player run for about one minute to allow the circuits to stabilize.
- Since the protective systems in the unit's software are rendered inoperative in test mode, be very careful to avoid mechanical and /or electrical shocks to the system when making adjustment.
- Test mode starting procedure Switch ACC,back-up ON while pressing the 4 and 6 keys together.

- Test mode cancellation Switch ACC,back-up OFF.
- Disc detection during loading and eject operations is performed by means of a photo transistor in this unit. Consequently, if the inside of the unit is exposed to a strong light source when the outer casing is removed for repairs or adjustment, the following malfunctions may occur.
 - *During PLAY, even if the eject button is pressed, the disc will not be ejected and the unit will remain in the PLAY mode.
- *The unit will not load a disc.

When the unit malfunctions this way, either re-position the light source, move the unit or cover the photo transistor.

- When loading and unloading discs during adjustment procedures, always wait for the disc to be properly clamped or ejected before pressing another key.
 Otherwise, there is a risk of the actuator being destroyed.
- Turn power off when pressing the button TR+ or the button TR- key for focus search in the test mode. (Or else lens may stick and the actuator may be damaged.)
- SINGLE/4TRK/10TRK/32TRK will continue to operate even after the key is released. Tracking is closed the moment C-MOVE is released.
- JUMP MODE resets to SINGLE as soon as power is switched off.

Flow Chart



Measuring Equipment and Jigs

Adjustment	Measuring equipment & jigs	
1 Tracking Error Offset Adjustment 1	DC V Meter	
2 Grating Check / Adjustment 1	Oscilloscope, ABEX TCD-784, L.P.F., Clock Driver	
3 Grating Adjustment 2	Oscilloscope, Grating Adjustment Filter (B.P.F.),	
J ,	mV Meter, ABEX TCD-784, L.P.F., Clock Driver	
4 Tracking Balance Adjustment 1	Oscilloscope, Low-pass Filter, ABEX TCD-784	
5 Focus Bias Adjustment	Oscilloscope, ABEX TCD-784	
6 RFO Offset Adjustment	Oscilloscope, ABEX TCD-784	
7 Tracking Error Offset Adjustment 2	DC V Meter	
8 Tracking Balance Adjustment 2	Oscilloscope, Low-pass Filter, ABEX TCD-784	

*4 SINGLE/4/10/32 -> continuous even after key release

Fig.7

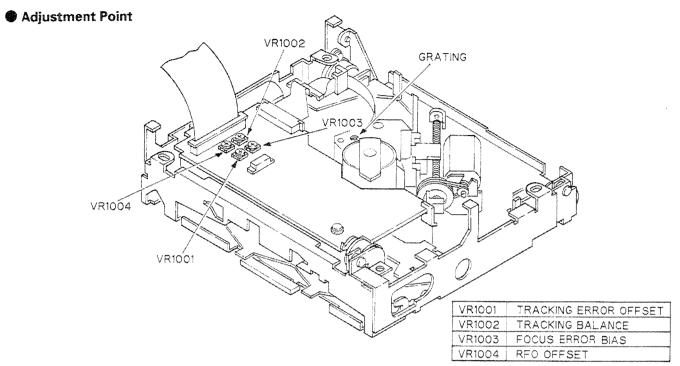


Fig.8

Test Point

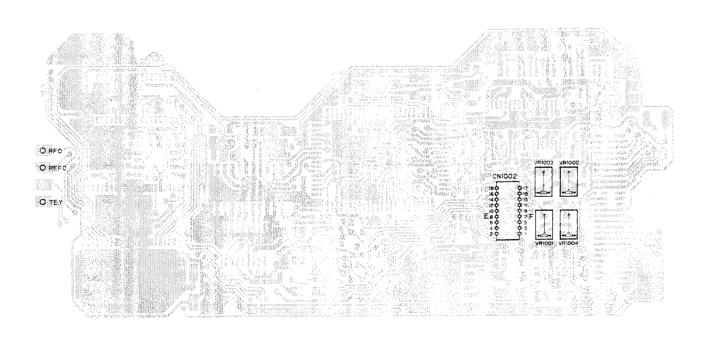


Fig.9

1 Tracking Error Offset Adjustment 1

·Purpose :

To adjust the offset of the tracking pre-amp to zero

·Symptoms of Mal-adjustment:

Track search NG, Carriage runaway, Poor playability

·Measuring

·DC V Meter

Equipment / Jig · Measuring Point

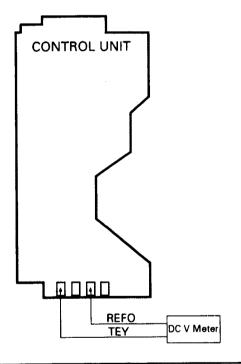
·TEY

·Test Disc , Mode

·No disc, TEST MODE

· Adjustment Point

· VR1001(TE OFFSET VR)



Adjustment Procedure

- 1.Switch the regulator on.
- 2.Using VR1001, adjust TEY to 0 ± 25mV w.r.t. REFO.

2 Grating Check / Adjustment 1

·Purpose:

To check that the PU grating is correctly aligned after the PU unit has been replaced

·Symptoms of Mal-adjustment:

Unable to play disc, track skip during search, search NG

·Measuring

·Oscilloscope, L.P.F.,

Equipment / Jig

Clock Driver

· Measuring Point

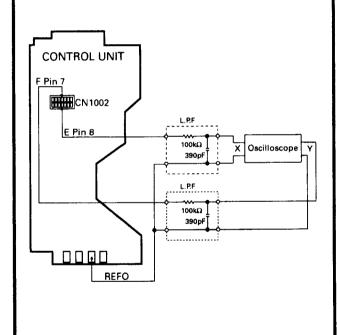
·E, F

·Test Disc , Mode

· ABEX TCD-784, TEST MODE

· Adjustment Point

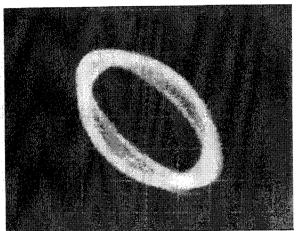
· Grating hole



Adjustment Procedure

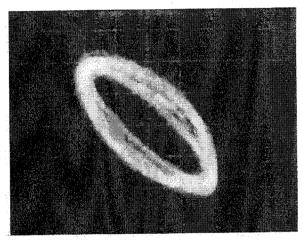
- 1.Load disc and switch regulator on.
- 2.Position the PU in the center of the disc using the TR+ & TR- keys.
- 3.Press key 3 to close focus and once more to close spindle.
- 4. Refering to the photographs given check that the grating is within ±45°. If not, it should be possible to make a fine adjustment to the grating by **slowly** tuning the grating screw. If, however during the adjustment the lissajous figure is seen to "FLIP" then the null point must be found and the adjustment made from there(see next section).

Lissajous figure (AC input) Horizontal axis E 10mV/div. Vertical axis F 10mV/div.



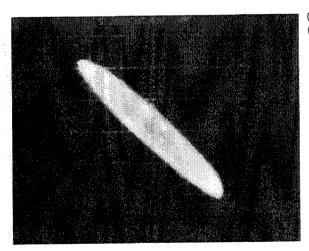
60°=NG

Waveform 1



45°=OK (Limit)

Waveform 2



0°=BEST (Doesn't become a single line due to eccentricity)

Waveform 3

3 Grating Adjustment 2

· Purpose :

This needs to be done if the previous adjustment was

· Symptoms of Mal-adjustment:

Unable to play disc, track skipping, track search NG

·Measuring Equipment / Jig Oscilloscope, Grating Adjustment filter (BPF), mV Meter, L.P.F., Clock Driver

· Measuring Point

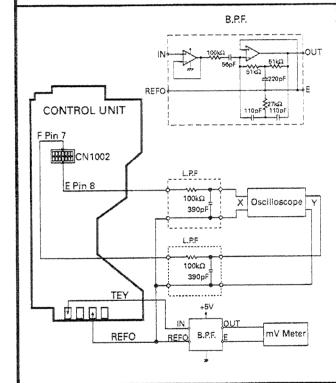
·TEY, E, F

·Test Disc , Mode

· ABEX TCD-784, TEST MODE

· Adjustment Point

-Grating hole

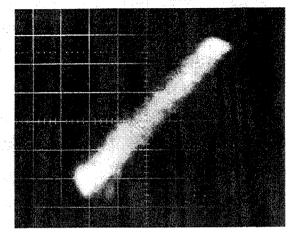


Adjustment Procedure

- 1.Load disc and switch regulator on.
- 2.Position PU unit in the center of the disc using the TR+ & TR- keys.
- 3. Press key 3 to close focus and press once more to close spindle.
- 4. While monitoring the output of the BPF connected to TEY, slowly turn the grating screw. The output voltage should pass through many minimums; search for the minimum which is clearly smaller than the rest this is the "null point", where the E & F subbeams are lined up with the tracks on the disc.
- 5.From this null point, turn the grating screw clockwise (as seen from the underside of the PU unit) until the lissajous waveform is a single line (or close as possible) as shown in the photograph.

Null Point=180°

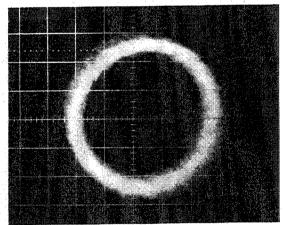
Lissajous figure (AC input) Horizontal axis E 10mV/div. Vertical axis F 10mV/div.



Waveform 4



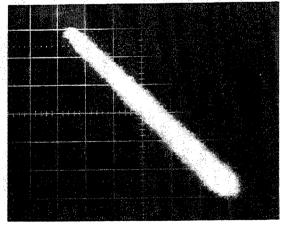
"Rough" adjustment=90°



Waveform 5



Final adjustment=0°



Waveform 6

4 Tracking Balance Adjustment 1

·Purpose:

To equate the sensitivity of the F channel to that of the E channel

· Symptoms of Mal-adjustment :

Track search NG, Poor playability carriage runaway

·Measuring

·Oscilloscope, L.P.F.

Equipment / Jig Measuring Point

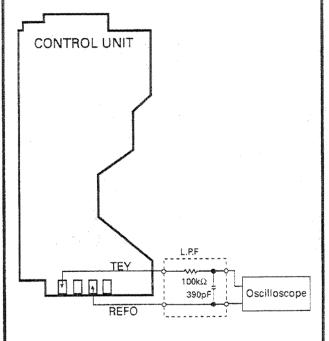
·TEY

Test Disc , Mode

· ABEX TCD-784, TEST MODE

· Adjustment Point

·VR1002 (T.BAL VR)



Adjustment Procedure

- 1.Load Disc and switch the regulator on.
- 2.Position the PU unit in the center of the disc using the TR+ & TR- keys.
- 3.Close focus by pressing key 3.
- 4.Observing the TEY waveform on the oscilloscope, adjust VR1002 until the positive and negative halves have the same amplitude (see waveform 7–9).

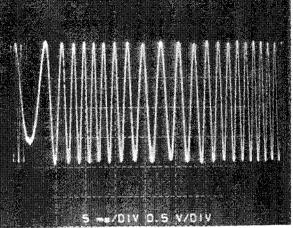
Check

After adjustment the TEY waveform should have an amplitude of 1.5 \pm 0.65 Vpp (ABEX-784) (Providing focus bias is OK)

DC Mode 0.5V/div. 5ms/div.

+5% NG

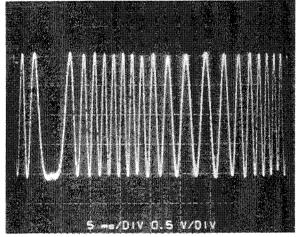
REFO -



Waveform 7

±0% OK

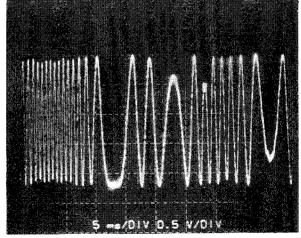
REFO →



Waveform 8

-5% NG

REFO →



Waveform 9

5 Focus Bias Adjustment

·Purpose:

To adjust the focus servo reference so that the RF waveform is an optimum.

Symptoms of Mal-adjustment :

Difficulty in closing focus, poor playability.

·Measuring

·Oscilloscope

Equipment / Jig Measuring Point

·RFO

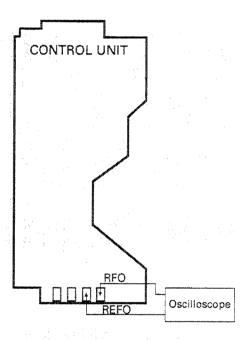
·Test Disc , Mode

·ABEX TCD-784, NORMAL

MODE

-Adjustment Point

·VR1003 (FE BIAS VR)

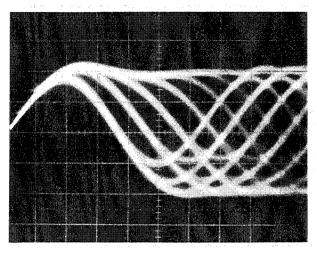


Adjustment Procedure

- 1) Play track number 18.
- Adjust VR1003 so that the RFO waveform amplitude is a maximum and eye pattern is optimum.

Check

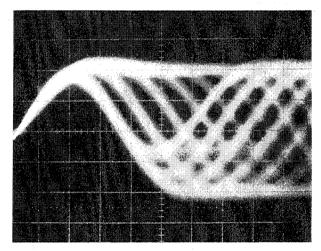
After adjustment the RFO waveform should have an amplitude of 1.7±0.65 Vpp (ABEX-784)



UK



Waveform 10



NG

AC Mode

Before adjustment

Waveform 11

6 RFO Offset Adjustment

DC Mode 0.2V/div. 0.5µs/div.

·Purpose

To adjust the RFO waveform offset to an optimum.

Symptoms of Mal-adjustment

Difficulty in closing focus, poor playability.

·Measuring

·Oscilloscope

Equipment / Jig Measuring Point

·RFO

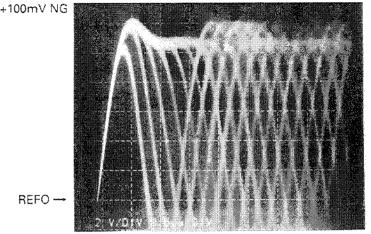
·Test Disc , Mode

·ABEX TCD-784, NORMAL

MODE

Adjustment Point

·VR1004 (RFO OFFSET VR)



Waveform 12

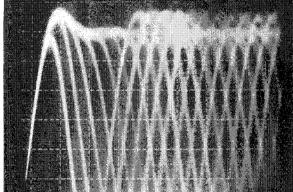
CONTROL UNIT Oscilloscope

OK 1.17

REFO -

REFO -

REFO -



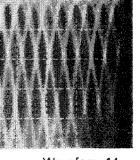
Waveform 13

Adjustment Procedure

1) Play track number 18.

2) Adjust VR1004 so that the peak value of the upper envelope of the RFO waveform is at +1.1VDC w.r.t. REFO.(See waveform 12-14)





Waveform 14

7 Tracking Error Offset Adjustment 2

·Purpose:

To check the offset of the tracking pre-amp is zero and adjust if necessary.

·Symptoms of Mal-adjustment:

Track search NG, Carriage runaway, Poor playability

·Measuring

·DC V Meter

Equipment / Jig

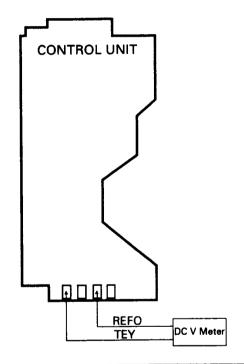
·TEY

· Measuring Point · Test Disc , Mode

·No disc, TEST MODE

· Adjustment Point

·VR1001(TE OFFSET VR)



Adjustment Procedure

1.Switch the regulator on.

2.Using VR1001, adjust TEY to 0 ± 25mV w.r.t. REFO.

8 Tracking Balance Adjustment 2

·Purpose :

To equate the sensitivity of the F channel to that of the E channel. This needs only be done if the TE OFF-SET volume was re-adjusted in the previous step

· Symptoms of Mal-adjustment:

Track search NG, Poor playability, carriage runaway

Measuring

·Oscilloscope, L.P.F.

Equipment / Jig

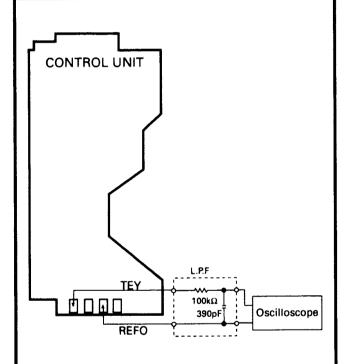
·TEY

· Measuring Point

·ABEX TCD-784, TEST MODE

Test Disc , Mode Adjustment Point

·VR1002 (T.BAL VR)



Adjustment Procedure

- 1.Load Disc and switch the regulator on.
- 2.Position the PU unit in the center of the disc using the TR+ & TR- keys.
- 3.Close focus by pressing key 3.
- 4. Observing the TEY waveform on the oscilloscope, adjust VR1002 until the positive and negative halves have the same amplitude (See waveform 7–9).

Check

After adjustment the TEY waveform should have an amplitude of 1.5±0.65 Vpp (ABEX-784)

4.2 TUNER SECTION

Connection Diagram

NOTE:

Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack. Z: Output impedance of SSG.

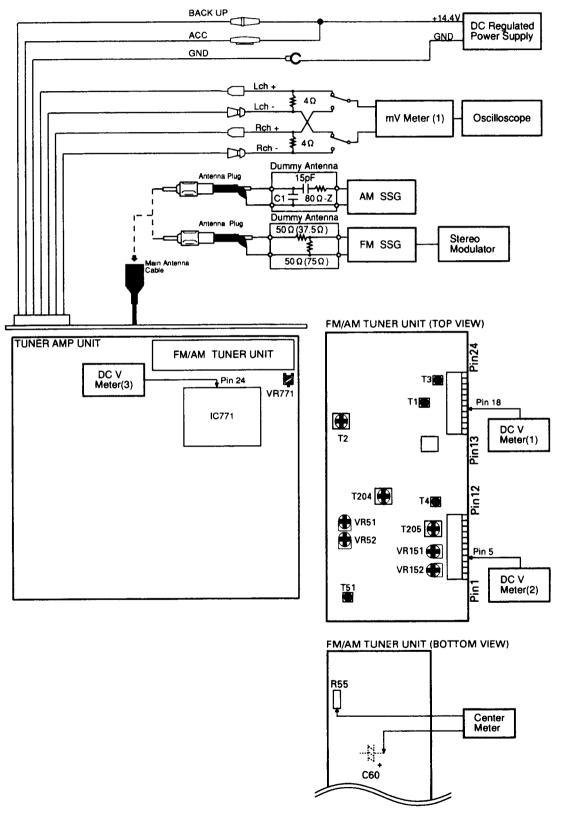


Fig. 10

MW/LW ADJUSTMENT

		AM SSG(40	00Hz,30%)	Displayed	Adjustment	Adjustment Method
	No.	Frequency(kHz)	Level(dB μV)	Frequency(kHz)	Point	(Switch Position)
IF	1	999	20	999	T204,T205,	mV Meter(1): Maximum

FM ADJUSTMENT

Modulation M:MONO MOD., 400Hz 100%(75kHz Dev.)

S:STEREO MOD., 1kHz, L or R=90%, Pilot=10%(67.5kHz+7.5kHz Dev.)

NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

		FM SSG	1	Displayed	Adjustment	Adjustment Method
	No.	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
TUN Volt	1	108.0 M	65	108.0	T4	DC V Meter(1): 6.5V±0.1V
IF	1	98.1 M	65	98.1	T51	Center Meter:0
ANT,RF	1	98.1 M	10	98.1	T1,T3	mV Meter(1): Maximum
IFT	1	98.1 M	10	98.1	T2	mV Meter(1): Maximum
	1					(STEREO MODE)
Soft	1	98.1 M	65	98.1		mV Meter(1) : A
Mute	İ					(STEREO MODE)
	2	98.1 M	15	98.1	VR52	mV Meter(1): A-3dB
MPX	1	98.1 S	65	98.1	VR 152	mV Meter(1): Separation Maximum
ARC	1	98.1 S	40	98.1	VR151	mV Meter(1): Separation 5dB
SD	1	98.1 S	22	98.1	VR51	DC V Meter(2) : Approx. 5V
					<u> </u>	(SEEK:ON)

FM SL ADJUSTMENT(DEH-605RDS)

	Modulation MOI	NO MOD., 400	Hz 100%(75kHz Dev	.)	
	FM SSG	i	Displayed	Adjustment	Adjustment Method
No.	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
1	106.1	52	106.1	VR771	DC V Meter(3): 2.25V±0.05V

5. ERROR NUMBERS AND NEW TEST MODE

Error Number Indication

If the CD should fail to operate or if an error has taken place during operation the player will enter into the error mode, and the cause of the error will be numerically indicated.

This is aimed at assisting in analysis or repair.

(1) Basic Means of Display

·With ERROR indicated in "MODE" on IP-BUS Display date, an error code is transmitted by the use of MIN and SEC. The MIN and SEC data will be identical.

·Examples of Display

E-XX

(2) Error Codes

2) Error C	odes		
Error Code	Classification	Description	Cause/Detail
10	ELECTRIC	Carriage home failure	Carriage doesn't move to or from the innermost position →Home switch failed and/or carriage immobile
11	ELECTRIC	Focus failure	Focus failed →Defects, disc upside-down, severe vibration
12	ELECTRIC	SETUP failure Subcode failure	Spindle failed to lock or subcode unreadable →Spindle defective, defect, severe vibration
14	ELECTRIC	Mirror failure	Unrecorded CD-R The disc is upside-down, defects, vibration
17	ELECTRIC	Set up failure	AGC protect failed →Defects, disc upside-down, severe vibration
30	ELECTRIC	Search time out	Failed to reach target address →Carriage/tracking defective and/or defects
A0	SYSTEM	Power failure	Power overvoltage or short circuit detected →Switching transistor defective and/or power abnormal

[&]quot;defects" means scratches, dirt etc an the surface of the disc.

New Test Mode(aging operation and setup analysis)

The single CD player plays in normal mode. After being set up, it will display FOK (focus), LOCK (spindle), subcode, sound skip, protection against a mechanical error or the like, occurrence of an error, cause and time of an expiry, if any, (and disk number)

During the setup, the CD software operation status (internal RAM and C-point) is displayed.

(1) How to enter NEW TEST Mode

See the test mode flow chart Page 1-24.

(2) Relations of keys between TEST and NEW TEST Modes

Keys	Test Mode		New Test Mode		
·	Regulator OFF	Regulator ON	PLAY in progress	Error Occurred, Protection Activated	
BAND/REL	Regulator ON	Regulator OFF	_	Time of occurrence/ cause of error select	
TR+		FWD-Kick	TR+		
TR-	_	REV-Kick	TR-	_	
1	_	Tracking close	PAUSE		
2		Tracking open	REPEAT		
3		Focus close	RANDOM	_	
TR+ & TR-	To New Test	Focus Mode	AUTO/MANU	TRACK No./ time	
	Mode	Select		of occurrence select	

Operations, such as EJECT, CD ON/OFF, etc. are performed normally

(3) Error Cause (Error Number) Code

Error Code	Classification	Mode	Description	Cause/Detail	
40	ELECTRIC	PLAY	FOK=L	Put out of focus	
					Scratch,
41	ELECTRIC	PLAY	LOCK=L	Spindle unlock	Stain,
			150ms		Vibration,
42	ELECTRIC	PLAY	Subcode	Failed to read subcode	Servo defect,
			unacceptable 500ms		etc
43	ELECTRIC	PLAY	Sound skipped	Last address memory	
				operated	

(4) Indicating an Operation Status During Setup

Status No.	Description	Protection operation
01	Carriage home mode started	None
02	Carriage moving inwards	10-second time out, Home switch failed
03	Carriage moving outwards	10-second time out, Home switch failed
05	Carriage moving outwards	None
11	Setup started	None
12	Spindle turn/Focus search started	None
13	Waiting for focus closure (XSI=L)	Failure to close focus
10,14	Waiting for focus closure (FOK=H)	Failure to close focus
15, 16, 17	Focus closed, Tracking open	Focus disrupted
18	During focus AGC	Focus disrupted
	Subcode waiting	
19	During tracking AGC	Disrupted focus
20	Waiting for MIRR ,LOCK or subcode read	Focus disrupted, MIRR NG, Failure to lock,
	Carriage closed, SPINDLE=ADAPTIVE	failed to read subcode

DEH-605RDS,5058DK,505,4058DK,405

(5) Example of Display.

SET UP in progress 8 digits

4 digits(Auto)

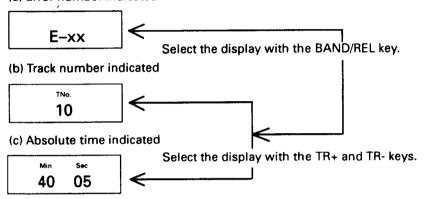
4 digits(Manual)

TNo. Min Sec 11 11 11

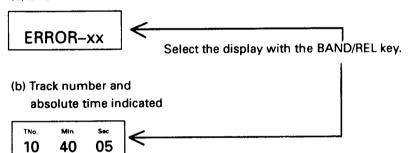
^{TNo.}

Min	Sec	
11	11	

- Operation (PLAY, SEARCH, etc.) in progress perfectly identical with that in the normal mode.
- ·Protection/Error upon occurrence(4 digits display)
- (a) Error number indicated



- ·Protection/Error upon occurrence(8 digits display)
- (a) Error number indicated



6. EXPLODED VIEW PARTS LIST

● Chassis(Exploded View:Page 2-9)

NOTES:

- Parts marked by "#"are generally unavailable because they are not in our Master Spare Parts List.
- Parts marked by "@" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

● Parts List(DEH-605RDS)

Mark No.	Description	Part No.	Mark No.		Part No.
1	Screw	BSZ26P050FMC	42	FM/AM Tuner Unit	CWE1313
2	Screw	BSZ26P080FMC	43	Antenna Jack	CKX1043
3	Screw	PSS26P060FZK	44	Holder	CNC4880
4	Screw	BSZ30P060FMC	45	Detach Grille Assy	CXA5860
5	Screw	BSZ30P120FMC	46	Screw	BUZ20P100FZK
6	Cord Assy	CDE4142	47	Button	CAC4040
7	Сар	CNS1472	48	Button	CAC4041
8	Resistor	RS1/2P102JL	49	Button	CAC4042
9	Screw	CBA1284	50	Button	CAC3741
10	Handle	CNC4947	51	Button	CAC3742
11	Bush	CNV1009	52	Button	CAC4039
12		CNB1817	53	Button	CAC3744
13	Holder	CNC3850	54	Grille	CNS2817
14	Holder	CNC4946	55	Cover	CNS2818
15	Insulator	CNM3726	56	Key Board Unit	CWX1661
16	P.C.Board	CNP3534	57	LCD	CAW1228
17	Case	CNS2269	58	Holder	CNC5009
18	Cushion	CNM3074	59	Lens	CNV3671
19	Cap	CNV2680	60	Rubber	CNV3672
20	Holder	CNV3620	61	Connector	CNV3673
24	Chancia Ilmin	CXA5925	62	Rubber	CNV3675
21	Chassis Unit	CXK2810	63	Spacer	CNM4042
22			64	Plug	CKS2402
23	Tuner Amp Unit	CWX1648	65	Panel Assy	CXA5875
24		BSZ26P120FMC	66	Screw	BPZ20P060FMC
25	Cord	CDE4136	66	Sciew	Bi 2201 0001 WIC
26	Antenna Cable	CDH1146	67	Spring	CBH1484
27	Plug(CN951)	CKM1139	68	Socket	CKS2782
28	Plug(CN851)	CKS1238	69	Holder	CNC4943
29	Connector(CN601)	CKS1529	70	Holder	CNC4944
30	Connector(CN651)	CKS1546	71	P.C.Board	CNP3532
31	Holder	CNC4881	72	Arm	CNV3696
32	Holder	CNC4882	73	Arm	CNV3697
	Bracket	CNC4940	74	Panel Unit	CXA5913
	Holder	CNC5013	75	Screw	PMS20P030FZK
35	Bracket	CNC5015	76	Detach Mechanism Unit	CXA5188
36	Insulator	CNM3825	77	Washer	CBF1039
	Heat Sink	CNR1307	78		CBH1484
	Spacer	CNM3343	79	, ,	CNV3292
	IC(IC551)	PA3029A	80	Arm	CNV3293
40		BSZ30P060FMC	81	Holder Unit	CXA5124
41	Bracket	CNC5014	82 83-90	IC(IC971)	PA2023A

● The DEH-505SDK, DEH-505, DEH-405SDK and DEH-405 Parts Lists enumerate the parts which differ from those enumerated in the DEH-605RDS Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-605RDS Parts List is given on page 1-38.

Mark No.	Description	DEH-605RDS	DEH-505SDK	DEH-505	DEH-405SDK	DEH-405
6	Cord Assy	CDE4142	CDE4141	CDE4142	CDE4141	CDE4142
19	Сар	CNV2680		• • • • • • • • • • • • • • • • • • • •	CNV2680	CNV2680
21	Chassis Unit	CXA5925	CXA5933	CXA5934	CXA5935	CXA5934
23	Tuner Amp Unit	CWX1648	CWX1649	CWX1651	CWX1650	CWX1652
25	Cord	CDE4136			CDE4136	CDE4136
28	Plug(CN851)	CKS1238			CKS1238	CKS1238
29	Connector(CN601)	CKS1529	CKS 1534	CKS1534	CKS1534	CKS1534
31	Holder	CNC4881	CNC4881		CNC4881	
31	Holder	CNC4882	CNC4882		CNC4882	
		CNC5015	CNC5016	CNC5016	CNC5015	CNC5015
35	Bracket	CINCOUTO	CINCOULD	CINCOULO	CINCOUID	01403013
36	Insulator	CNM3825	CNM3825		CNM3825	
42	FM/AM Tuner Unit	CWE1313	CWE1311	CWE1311	CWE1311	CWE1311
45	Detach Grille Assy	CXA5860	CXA5861	CXA5866	CXA5865	CXA5867
52	Button	CAC4039				
54	Grille	CNS2817			CNS2835	CNS2837
54	Grille Unit		CXA5921	CXA5922		
56	Key Board Unit	CWX1661	CWX1662	CWX1662	CWX1664	CWX1664
57	LCD	CAW1228	CAW1229	CAW1229	CAW1229	CAW1229
58	Holder	CNC5009	CNC5010	CNC5010	CNC5010	CNC5010
65	Panel Assy	CXA5875	CXA5876	CXA5876	CXA5876	CXA5876
68	Socket	CKS2782	CKS2783	CKS2783	CKS2783	CKS2783
71	P.C.Board	CNP3532	CNP3526	CNP3526	CNP3526	CNP3526
83	Plug(CN851)		CKS1242	CKS1242		
84	Cord		CDE4138	CDE4138		
85	Cap		CNV2680	CNV2680		
86	Spacer		CNM4027	CNM4027		
07	Remote Control Assy		CXA6155	CXA6155		
87 88	Battery Cover	1	CNS2850	CNS2850		
1	IC(IC922)		RPM-678CBR	RPM-678CBR		
89	· ·		CNM3882	NEW-076CBN	CNM3882	
90	Spacer	L	T CIAIAI2005			

● CD Mechanism Module(Exploded View:Page 2-11)

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	PMS26P040FMC	11	Screw	CBA1077
-	Control Unit	CWX1641	12	Screw	CBA1230
3	Connector(CN1001)	CKS1955	13	Screw	CBA1296
_	Connector(CN1701)	CKS2775	14	Washer	CBF1038
=	Connector(CN1002)	CKS2811	15	Washer	CBF1060
6	Connector(CN1801)	CKS2196	16	Spring	CBH1415
	CD Mechanism Unit	CXA6475	17	Spring	CBH1417
	Screw	BMZ20P030FMC	18	Spring	CBH1418
_	Screw	BSZ20P040FMC		Spring	CBH1421
_	Screw	CBA1041	20	Spring	CBH1423

DEH-805RD8,5058DK,505,4058DK,405

Mark	No.	Description	Part No.	Mark No.	Description	Part No.
	21	Spring	CBH1457	66	Gear	CNV3569
	22	Spring	CBH1552	67	Gear	CNV3570
	23	Spring	CBH1553	68	Arm	CNV3571
	24	Spring	CBH1554	69	Holder	CNV3572
		Spring	CBH1555	70	Gear	CNV3573
	26	Spring	CBH1556	71	Holder	CNV3574
	27	Spring	CBH1557	72	Holder	CNV3575
	28	Spring	CBH1558	73	Holder	CNV3576
		Spring	CBH1559	74	Rack	CNV3577
		Spring	CBH1560	75	Arm	CNV3578
	31	Spring	CBH1576	76	Plate	CNV3629
		Spring	CBH1577	77	Guide	CNV3694
		Spring	CBH1578	78	P.C.Board	CNP3418
		Spring	CBH1583	79	P.C.Board	CNP3666
		Spring	CBH1628	80	Screw Unit	CXA2375
	36	Spring	CBL1170	81	Motor Unit	CXA4649
	37	Spring	CBL1171	82	Chassis Unit	CXA5602
		Spring	CBL1172	83	Arm Unit	CXA5603
		Connector	CDE4147	84	Arm Unit	CXA5604
		PU Unit	CGY1031	85	Bracket Unit	CXA5605
	41	Shaft	CLA2220	86	Lever Unit	CXA5606
		Roller	CLA2255	87	Arm Unit	CXA5607
	43	Shaft	CLA2256	88	Arm Unit	CXA5608
		Frame	CNC4888	89	Gear Unit	CXA5609
	45	Arm	CNC4889	90	Motor Unit	CXA5703
	46	Lever	CNC4891	91	Bracket Unit	CXA5938
	47	Lever	CNC4892	92	Frame Unit	CXA6192
	48	Bracket	CNC4893	93	Motor Unit	CXA6456
	49	Arm	CNC4895	94	Screw	JFZ17P035FNI
	50	Arm	CNC4898	95	Screw	JFZ20P014FMC
		Bracket	CNC5424		Screw	JFZ20P020FZK
		Spacer	CNM3315		Screw	JFZ20P025FMC
	53	Sheet	CNM4066	98	Photo-transistor	PT4800
		Sheet	CNM3693	99	Washer	YE15FUC
	55	Bracket	CNM3917	100	Washer	YE20FUC
		Belt	CNT1053		Spacer	CNM3999
	57	Clamper Unit	CXA6552		Sheet	CNM4028
	58	Guide	CNV2891	103	Holder	CNV3805
	59	Holder	CNV3276	104	Spacer	CNC5436
#	60	Roller	CNV3412	105	Screw	JFZ20P045FMC
	61	Damper	CNV3720			
		Arm	CNV3565			
	63	Arm	CNV3566			
		Gear	CNV3567			
	65	Gear	CNV3568			

7. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/OSOOOJ,RS1/OOSOOOJ

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

====Circuit Symbol & No. Part		No.						No. Part Name=	Part No.
- 'a November - CWE1212/DEH	enepros)		RF:	SISTO	ORS				
nit Number : CWE1313(DEH- CWE1311(DEH-	505SDK,505,405SDK,405)								
nit Name : FM/AM Tuner L			R	1					RS1/16S223J
THE HATTE : THE PART TO THE			R	2					RS1/16S271J
IISCELLANEOUS			R	3	10	16	18	20	RS1/16S223J
IISCELLANEOUS			R	4	5				RS1/16S0R0J
: 1	PA2	021B	R	6	_				RS1/16S680J
2		2022A		_					
=		(195	R	7	14				RS1/16S563J
1 1		2712	R	8	• •				RS1/16S152J
2 202		C124EU	Ř	9					RS1/16S473J
3	Bit	312420	R	11					RS1/16S474J
	DTC	C124TU	Ř	12					RS1/16S123J
51		C4207	• • • • • • • • • • • • • • • • • • • •	'-					
52		A1586	R	13	15	217			RS1/16S563J
53		(435	R		206	217			RS1/16S102J
201	-	/172	R	21	22				RS1/16S560J
1	134	/1/2	R	51	74				RS1/16S391J
	KV	1410	R	52	, -				RS1/16S152J
2 3 4		1410 .151\A/K_&#T</td><td>n</td><td>JZ</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>) 5</td><td></td><td>151WK-MT</td><td>R</td><td>53</td><td></td><td></td><td></td><td></td><td>RS1/16S751J</td></tr><tr><td>6 151 201 202</td><td></td><td>157-MR</td><td></td><td></td><td>457</td><td></td><td></td><td></td><td>RS1/16S682J</td></tr><tr><td>203</td><td></td><td>C203CP</td><td>R</td><td></td><td>157</td><td></td><td></td><td></td><td>RS1/16S332J</td></tr><tr><td>. 1 Indu</td><td>ctor LC1</td><td>TBR12K2125</td><td>R</td><td>56</td><td></td><td></td><td></td><td></td><td>RS1/16S332J</td></tr><tr><td></td><td></td><td></td><td>R</td><td>58</td><td>/3</td><td>203</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>U150K</td><td>R</td><td>60</td><td></td><td></td><td></td><td></td><td>RS1/16S123J</td></tr><tr><td>. 51 Ferri</td><td>-Inductor LAI</td><td>U2R2K</td><td></td><td></td><td></td><td></td><td></td><td></td><td>DO44400004</td></tr><tr><td>. 201 Ferri</td><td>-Inductor LAI</td><td>U4R7K</td><td>R</td><td>72</td><td></td><td></td><td></td><td></td><td>RS1/16S391J</td></tr><tr><td>202 Coil</td><td></td><td>F1026</td><td>R</td><td>101</td><td></td><td></td><td></td><td></td><td>RS1/16S224J</td></tr><tr><td>203 Indu</td><td>ctor LAI</td><td>U390K</td><td>R</td><td>102</td><td>222</td><td></td><td></td><td></td><td>RS1/16S822J</td></tr><tr><td></td><td></td><td></td><td>R</td><td>103</td><td></td><td></td><td></td><td></td><td>RS1/16S223J</td></tr><tr><td>. 204 Ferri</td><td>-inductor LAI</td><td>U680K</td><td>R</td><td>104</td><td></td><td></td><td></td><td></td><td>RS1/16S822J</td></tr><tr><td></td><td>-Inductor LAI</td><td>U330K</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>. 206 Indu</td><td>ctor CTI</td><td>F1198</td><td>R</td><td>151</td><td>152</td><td></td><td></td><td></td><td>RS1/16S272J</td></tr><tr><td>1 Coil</td><td>СТС</td><td>C1078</td><td>R</td><td>153</td><td></td><td></td><td></td><td></td><td>RS1/16S103J</td></tr><tr><td>2 Coil</td><td>СТІ</td><td>E1077</td><td>R</td><td></td><td>155</td><td>202</td><td></td><td></td><td>RS1/16S103J</td></tr><tr><td>_</td><td></td><td></td><td>R</td><td>156</td><td></td><td></td><td></td><td></td><td>RS1/16S153J</td></tr><tr><td>r 3 Coil</td><td>CTC</td><td>C1077</td><td>R</td><td>158</td><td></td><td></td><td></td><td></td><td>RS1/16S183J</td></tr><tr><td>r 4 Coil</td><td>СТ</td><td>C1079</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>51 Coil</td><td>СТ</td><td>C1081</td><td>R</td><td>159</td><td>216</td><td></td><td></td><td></td><td>RS1/16S103J</td></tr><tr><td>T 202 Coil</td><td>CTI</td><td>B1102</td><td>R</td><td>204</td><td>213</td><td></td><td></td><td></td><td>RS1/16S222J</td></tr><tr><td>7 203 Coil</td><td></td><td>E1076</td><td>R</td><td>205</td><td></td><td></td><td></td><td></td><td>RS1/16S823J</td></tr><tr><td>203</td><td></td><td></td><td>R</td><td>207</td><td></td><td></td><td></td><td></td><td>RS1/16S225J</td></tr><tr><td>Г 204 Coil</td><td>CT</td><td>E1074</td><td>R</td><td>208</td><td></td><td></td><td></td><td></td><td>RS1/16S752J</td></tr><tr><td>F 205 Coil</td><td></td><td>E1075</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>= :</td><td>P-201M</td><td>R</td><td>209</td><td></td><td></td><td></td><td></td><td>RS1/16S822J</td></tr><tr><td>CF 1 51 52(DEH-605RDS</td><td></td><td>F1292</td><td>R</td><td>214</td><td></td><td></td><td></td><td></td><td>RS1/16S333J</td></tr><tr><td></td><td></td><td>F1290</td><td>R</td><td>215</td><td></td><td></td><td></td><td></td><td>RS1/16S330J</td></tr><tr><td>CF 1 31 32/DE1*3033D1</td><td>(,505,4050),(,405)</td><td></td><td>R</td><td>218</td><td></td><td></td><td></td><td></td><td>RS1/16S333J</td></tr><tr><td>Corr</td><td>mic Filter CT</td><td>F1291</td><td>R</td><td>220</td><td></td><td></td><td></td><td></td><td>RS1/16S100J</td></tr><tr><td>DI 201</td><td></td><td>F1300</td><td>•••</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>S1308</td><td>R</td><td>221</td><td></td><td></td><td></td><td></td><td>RS1/16S473J</td></tr><tr><td></td><td></td><td>S1111</td><td></td><td> '</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>P1210</td><td>CA</td><td>PACI</td><td>TOR</td><td>S</td><td></td><td></td><td></td></tr><tr><td></td><td>at filed country CC</td><td>P1211</td><td>С</td><td>1</td><td>54</td><td></td><td></td><td></td><td>CCSRCH220.</td></tr><tr><td></td><td></td><td></td><td>Č</td><td>2</td><td>_</td><td></td><td></td><td></td><td>CCSRCH390.</td></tr><tr><td></td><td></td><td>P1206</td><td>c</td><td>3</td><td></td><td>154</td><td>162</td><td>203 210</td><td>CKSQYB473</td></tr><tr><td>VR 152 Sen</td><td>ni-fixed 22k Ω (B) CC</td><td>P1208</td><td>C</td><td>4</td><td></td><td></td><td>103</td><td>203 210</td><td>CCSRCH070</td></tr><tr><td></td><td></td><td></td><td>Ċ</td><td>5</td><td></td><td></td><td></td><td></td><td>CCSRCH270</td></tr><tr><td></td><td></td><td></td><td>C</td><td>5</td><td>53</td><td></td><td></td><td></td><td>JUJ 101 12/0</td></tr></tbody></table>							

DEH-605RD8,5058DK,505,4058DK,405

====Circuit Symbol & No. Part Name=====	Part No.	====Circuit Symbol & No. Part Name===== Part No.
C 6 C 7 C 8 105 C 9 16 C 10	CKSRYB222K50 CCSRCH040C50 CKSRYB222K50 CCSRCH470J50 CCSRCH090D50	Q 453 454 455 456 DTC314TK Q 457 25A1162 Q 501 25C3295 Q 503 25C3098 Q 505 509 25K208
C 11 C 13 C 14 C 15 22 55 101 151 164 219 220 225 227 C 17	CKSRYB223K25 CCSRCH070D50 CKSRYB103K50 CKSQYB104K25 CCSRCH100D50	Q 551 601 604 606 864 957 983 DTC114EK Q 602 863 982 DTA114EK Q 603 605 607 956 2SB1238 Q 772 DTC124EK Q 861 862 2SC2712
C 18 C 19 20 21 52 62 71 74 201 207 209 C 23 C 24 29 73 106 213 C 25	CCSRCH080D50 CKSRYB103K50 CEA3R3M50LL CKSRYB223K25 CKSRYB682K50	Q 981 2SD2396 D 501 971 MA151WK-MT D 504 505 MA3027H D 771 972 973 1SS133 D 772 MTZ4R7B
C 26 28 231 C 51 223 C 56 162 211 C 57 64 66 237 C 58	CEA101M16LL CKSRYB103K50 CEA010M50LL CCSRCH101J50 CKSRYB153K25	D 861
C 60 C 61 C 63 C 65 C 103	CEAR47M50LL CEAR22M50LL CKSQYB104K25 CEA0R1M50LL CKSQYB222K50	L 501 Ferri-Inductor CTF-157 L 502 Ferri-Inductor LAU220K L 601 602 603 Ferri-Inductor LAU470K TH 601 Thermistor CCX1008 IB 551 552 Diode Array CWW1338
C 104 C 152 153 C 155 C 156 C 158 212	CEA4R7M35LL CKSRYB223K25 CEAR47M50LL CKSQYB563K16 CEA100M16LL	IB 601 Diode Array CWW1336 IB 602 Diode Array CWW1337 X 501 Crystal Resonator CSS1011 X 601 Crystal Resonator CSS1023 VR 771 Semi-fixed 2.2kΩ(B) VRMB6VS222
C 159 C 160 C 161 C 202 C 204	CCSRCH331J50 CKSYB105K16 CKSQYB104K25 CKSRYB332K50 CCSRCH120J50	BZ 601 Buzzer CPV1011 TUN501 FM/AM Tuner Unit CWE1313 RESISTORS
C 205 C 206 221 C 208 C 214 230 C 215 228	CCSRCH560J50 CCSRCH680J50 CEA470M16LL CKSRYB472K50 CKSRYB103K50	R 451 452 514 515 521 522 602 604 618 619 RS1/10S473J R 453 454 F 458 463 464 529 533 536 538 RS1/10S102J R 459 460 505 865 866 952 956 F 851/10S103J R 467 468 488 489 490 491 F 851/10S103J
C 216 C 217 C 218 234 C 222 C 224	CCSRCH100D50 CCSRCH221J50 CEA220M16LL CCSRCH150J50 CCSRCH181J50	R 471 472 RS1/10S272J R 473 474 RD1/4PS163JL R 475 476 RS1/10S273J R 477 478 RS1/10S331J R 481 482 RS1/10S272J
C 226 C 229 C 232 C 233 C 235	CEA4R7M35LL CEAR68M50LL CCSRCH390J50 CKSRYB332K50 CKSQYB104K25	R 485 486 487 566 567 568 569 RD1/4PS472JL R 492 493 494 495 507 974 RS1/10S103J R 503 508 509 512 516 530 551 552 553 554 RS1/10S472J R 504 511 513 534 535 601 603 863 RS1/10S222J RS1/10S221J
C 236 Unit Number : CWX1648(DEH-605RDS)	CKSRYB223K25	R 510 RS1/10S123J R 517 518 519 520 RD1/4PS222JL R 523 RS1/10S563J R 524 784 RS1/10S101J R 525 782 RS1/10S322J
Unit Name : Tuner Amp Unit		R 526 RS1/10S331J
MISCELLANEOUS IC 471 IC 481 IC 482 483	NJM4558L LC7538JMHS	R 527 RS1/10S821J R 528 RS1/10S680J R 531 RS1/8S103J R 532 781 RS1/10S152J
IC 501 IC 551	NJM4558MD LC72140M PA3029A	R 539 540 541 605 606 616 652 657 658 659 RS1/10S102J R 542 RS1/10S822J R 545 546 RS1/8S0R0J
IC 601 IC 771 IC 961 IC 971 Q 451 452 502 504 508 771 773	PD4483B CWV1044 PAJ001A PA2023A 2SC2712	R 548 RS1/10S330J R 549 RD1/4PS102JL

DEH-605RDS,505SDK,505,405SDK,405

	it Symb	ol & N	lo. Part N	Name:	====		Part No.	=====Circuit Symbo	ol & No. Part Name=====	Part No.
555 55	R						RS1/10S2R2J	C 612 613		CKSQYB102K50
	ю						RD1/4PS102JL	C 771		CEAR47M50LL
557	0 560	E@1	562 563	564	565		RD1/4PS2R2JL	C 773 862		CEA100M16LL
570	9 300	501	302 303	504	303		RD1/4PS752JL	C 863 864		CCSQCH221J50
571							RS1/10S560J	C 962		CEAR22M50LL
573							RS1/10S682J	C 964		CEA2R2M50LL
617							RS1/8S473J	C 96 5		CEA220M6R3LI
620 96	13						RS1/10S683J	C 971		CEA010M50LL
		773	774 775	776	777	778	RS1/10S473J	C 972		CEAS470M10
622 62							RD1/4PS222JL	C 973		CEAS101M10
623 62	5 971						RS1/10S104J	C 974	000 F/40)/	CEAS221M10
626							RS1/10S183J	C 975	330 μ F/10V	CCH1181
627 62	9 632	957	973 984				RS1/10S472J	C 981		CEAS331M16
-	958						RD1/4PS272JL			
633							RD1/4PS472JL	Unit Number : CW	X1641	
	6 647						RS1/10S472J RS1/10S682J	Unit Name : Cor	ntrol Unit	
648							RD1/4PS102JL	MISCELLANEOUS		
651		e e					RS1/10S681J	WISCELLANDOS		
	64 655 82 663	656 664	780 783	972			RS1/10S102J	IC 1001		UPC2571GS
900 BE	,z 003	004	,00 /03	312				IC 1201		UPD63700GF
670 67	71 672						RD1/4PS472JL	IC 1301		PA3026
673	0/2						RD1/4PS103JL	IC 1302		XRA6285FP
6/3 771							RS1/10S471J	IC 1302		NJM4558M
7/1 861 86	32						RD1/4PS821JL	,5 .500		
864	J.E.						RS1/8S222J	IC 1601		TC9268F
004								IC 1602		TA2063F
951							RS1/10S0R0J	IC 1701		PQ05TZ51
951 959							RD1/4PS513JL	Q 1001		2SB1260
961							RS1/8S823J	Q 1601 1602		2SD1781K
962							RS1/10S363J			******
964							RD1/4PS473JL	Q 1603		2SB709A
								D 1601		MA151WA-MN
965							RD1/4PS273JL	D 1701 1702 1703 1		SC016-2
966							RS1/10S103J	D 1801 1802	Chip LED	CL200IRX
981							RD1/4PS471JL	L 1601	Inductor	LCTBR39K2125
982							RD1/4PS221JL		0	CCC4067
983							RS1/10S392J	X 1601	Crystal Resonator	CSS1067 CSN1028
								S 1801 1802	Switch(Home,Clamp) Semi-fixed 2.2kΩ(B)	CCP1177
APACITO	RS							VR1001 VR1002	Semi-fixed 2.2kΩ(B)	CCP1183
							CEAS4R7M25	VR1002 VR10031004	Semi-fixed 47kΩ(B)	CCP1185
451 49 471 4		402	961				CEAS100M16	**********		
473 4		402	001				CCSQCH560J50	RESISTORS		
	, 1 51 96 3		1000 μ F	F/16V			CCH1149			
476 4			1000 μ.	,			CKSQYB393K25	R 1001		RS1/8S100J
								R 1002		RS1/8S120J
483 4	84 485	486	491 492	553	567	568 569	CEA100M16LL	R 1003 1201 1307 1	309	RS1/16S103J
487 4							CKSYB224K16	R 1004 1013 1024 1	025 1311 1315 1318 1708	RS1/16S102J
							CKSQYB272K50	R 1005		·
489 4										RS1/16S823J
493 4	94 506	507					CKSQYB223K25			RS1/16S823J
	94 506	507						R 1006		RS1/16S823J RS1/16S182J
493 4 495 4	94 506 96						CKSQYB223K25 CKSQYB562K50	R 1006 R 1007		RS1/16S823J RS1/16S182J RS1/16S333J
493 4 495 4 497 4	94 506 96 98 499	500					CKSQYB223K25 CKSQYB562K50 CCSQCH330J50	R 1006 R 1007 R 1011 1012		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J
493 4 495 4 497 4 501 5	94 506 96 98 499 05 509	500 512	517				CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50	R 1006 R 1007 R 1011 1012 R 1014 1015 1310		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S473J
493 4 495 4 497 4 501 5 502 6	94 506 96 98 499 05 509 07 982	500 512					CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25	R 1006 R 1007 R 1011 1012		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J
493 4 495 4 497 4 501 5 502 6	94 506 96 98 499 05 509 07 982	500 512	517 772 952	954			CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25 CKSQYB103K25	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S473J RS1/16S622J
493 4 495 4 497 4 501 5 502 6 504 5	94 506 96 98 499 05 509 07 982	500 512		954			CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S473J RS1/16S622J RS1/16S563J
493 4 495 4 497 4 501 5 502 6 504 5	94 506 96 98 499 05 509 07 982	500 512	772 952				CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25 CKSQYB103K25 CCSQCH681J50	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018 R 1019 R 1020		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S473J RS1/16S622J RS1/16S563J RS1/16S5622J
493 4 495 4 497 4 501 5 502 6 504 5 511	94 506 96 98 499 05 509 07 982	500 512					CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25 CKSQYB103K25 CCSQCH681J50 CCG1008	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018 R 1019 R 1020 R 1021		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S473J RS1/16S622J RS1/16S563J RS1/16S622J
493 4 495 4 497 4 501 5 502 6 504 5 511	94 506 96 98 499 05 509 07 982	500 512	772 952				CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25 CKSQYB103K25 CCSQCH681J50 CCG1008 CFTNA474J50	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018 R 1019 R 1020 R 1021 R 1022		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S473J RS1/16S622J RS1/16S583J RS1/16S513J RS1/16S513J
493 4 495 4 497 4 501 5 502 6 504 5 511 513 515 516	94 506 96 98 499 05 509 07 982 10 514	500 512	772 952				CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25 CKSQYB103K25 CCSQCH681J50 CCG1008 CFTNA474J50 CEA4R7M35LL	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018 R 1019 R 1020 R 1021		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S473J RS1/16S622J RS1/16S563J RS1/16S622J
493 4 495 4 497 4 501 5 502 6 504 5 511 513 515 516 518 5	94 506 96 98 499 05 509 07 982 10 514	500 512	772 952 0.047 μ	F			CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25 CKSQYB103K25 CCSQCH681J50 CCG1008 CFTNA474J50 CEA4R7M35LL CCSQCH120J50	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018 R 1019 R 1020 R 1021 R 1021 R 1022 R 1027		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S622J RS1/16S563J RS1/16S5622J RS1/16S513J RS1/16S5133J RS1/16S183J
493 4 495 4 497 4 501 5 502 6 504 5 511 513 515 516 518 5	94 506 96 98 499 05 509 07 982 10 514	500 512	772 952	F			CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25 CKSQYB103K25 CCSQCH681J50 CCG1008 CFTNA474J50 CEA4R7M35LL	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018 R 1019 R 1020 R 1021 R 1022 R 1027		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S473J RS1/16S622J RS1/16S563J RS1/16S622J RS1/16S513J RS1/16S133J RS1/16S183J RS1/16S822J
493 4 495 4 497 4 501 5 502 6 504 5 511 513 515 516 518 5 520	94 506 96 98 499 05 509 07 982 10 514	500 512 523	 772 952 0.047 μ 4.7 μ F/ 	F			CKSQYB223K25 CKSQYB562K50 CCSQCH101J50 CKSQYB473K25 CKSQYB473K25 CCSQCH681J50 CCG1008 CFTNA474J50 CEA4R7M35LL CCSQCH120J50 CCH1165	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018 R 1019 R 1020 R 1021 R 1022 R 1027 R 1028 R 1301 1302		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S622J RS1/16S622J RS1/16S622J RS1/16S513J RS1/16S133J RS1/16S183J RS1/16S182J RS1/16S822J RS1/16S822J
493 4 495 4 501 5 502 6 504 5 511 513 515 516 516 520	94 506 96 98 499 05 509 07 982 10 514	500 512 523	 772 952 0.047 μ 4.7 μ F/ 606 	F 16V			CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25 CKSQYB103K25 CCSQCH681J50 CCG1008 CFTNA474J50 CEA4R7M36LL CCSQCH120J50 CCH1165 CKSQYB102K50	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018 R 1019 R 1020 R 1021 R 1022 R 1027 R 1028 R 1301 1302 R 1303 1606 1607		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S622J RS1/16S622J RS1/16S622J RS1/16S513J RS1/16S133J RS1/16S183J RS1/16S822J RS1/16S822J RS1/16S222J
493 4 495 4 497 4 501 5 502 6 504 5 511 513 515 516 518 5 520	94 506 98 499 05 509 07 982 10 514	500 512 523	772 952 0.047 μ 4.7 μ F/ 606 3300 μ	F 16V			CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25 CKSQYB103K25 CCSQCH681J50 CCG1008 CFTNA474J50 CEA4R7M35LL CCSQCH120J50 CCH1165 CKSQYB102K50 CCH1150	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018 R 1019 R 1020 R 1021 R 1022 R 1027 R 1028 R 1301 1302 R 1303 1606 1607 R 1304		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S622J RS1/16S622J RS1/16S563J RS1/16S513J RS1/16S133J RS1/16S183J RS1/16S822J RS1/16S222J RS1/16S222J RS1/16S223J RS1/16S223J
493 4 495 4 497 4 501 5 502 6 504 5 511 513 515 516 518 5 520 551 5 556 557 5	94 506 98 499 05 509 07 982 10 514 119 152 554 158 601	500 512 523 523	772 952 0.047 μ 4.7 μ F/ 606 3300 μ 9	F 16V F/16V			CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25 CKSQYB103K25 CCSQCH681J50 CCG1008 CFTNA474J50 CEA4R7M35LL CCSQCH120J50 CCH1165 CKSQYB102K50 CCH1150 CKSQYB104K25	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018 R 1019 R 1020 R 1021 R 1022 R 1027 R 1028 R 1301 1302 R 1303 1606 1607		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S622J RS1/16S622J RS1/16S622J RS1/16S513J RS1/16S133J RS1/16S183J RS1/16S822J RS1/16S822J RS1/16S222J
493 4 495 4 497 4 501 5 502 6 504 5 511 513 515 516 518 5 520 551 5 551 5 557 5 559 5	94 506 98 499 95 509 97 982 10 514 119 119 1552 554 158 601 160 561	500 512 523 523	772 952 0.047 μ 4.7 μ F/ 606 3300 μ	F 16V F/16V			CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25 CKSQYB103K25 CCSQCH681J50 CCG1008 CFTNA474J50 CEA4R7M35LL CCSQCH120J50 CCH1165 CKSQYB102K50 CCH1150 CKSQYB104K25 CQMA104J50	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018 R 1019 R 1020 R 1021 R 1022 R 1027 R 1028 R 1301 1302 R 1303 1606 1607 R 1304 R 1305 1306 1705		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S622J RS1/16S563J RS1/16S563J RS1/16S513J RS1/16S513J RS1/16S133J RS1/16S122J RS1/16S222J RS1/16S222J RS1/16S322J RS1/16S332J
493 4 495 4 497 4 501 5 502 6 504 5 511 513 515 516 518 5 518 5 550 550 5	94 506 98 499 95 509 97 982 10 514 119 119 1552 554 158 601 160 561	500 512 523 523	772 952 0.047 μ 4.7 μ F/ 606 3300 μ 9	F 16V F/16V			CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25 CKSQYB103K25 CCSQCH681J50 CCG1008 CFTNA474J50 CEA4R7M35LL CCSQCH120J50 CCH1165 CKSQYB102K50 CCH1150 CKSQYB104K25	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018 R 1019 R 1020 R 1021 R 1022 R 1027 R 1028 R 1301 1302 R 1303 1606 1607 R 1304 R 1305 1306 1705 R 1308		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S622J RS1/16S622J RS1/16S513J RS1/16S513J RS1/16S133J RS1/16S122J RS1/16S222J RS1/16S223J RS1/16S223J RS1/16S332J RS1/16S332J
493 4 495 4 497 4 501 5 502 6 504 5 511 513 515 516 518 5 520 551 556 557 5 559 5 570 6	94 506 98 499 05 509 07 982 10 514 119 152 554 168 601 168 661 168 661	500 512 523 555 609 562	772 952 0.047 μ 4.7 μ F/ 606 3300 μ 9	F 16V F/16V			CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25 CKSQYB103K25 CCSQCH681J50 CCG1008 CFTNA474J50 CEA4R7M35LL CCSQCH120J50 CCH1165 CKSQYB102K50 CCH1150 CKSQYB104K25 CQMA104J50 CEA100M16LL	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018 R 1019 R 1020 R 1021 R 1022 R 1027 R 1028 R 1301 1302 R 1303 1606 1607 R 1304 R 1305 1306 1705 R 1308 R 1314		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S622J RS1/16S622J RS1/16S622J RS1/16S513J RS1/16S133J RS1/16S133J RS1/16S222J RS1/16S222J RS1/16S233J RS1/16S133J RS1/16S123J RS1/16S123J RS1/16S123J RS1/16S0R0J
493 4 495 4 501 5 502 6 504 5 511 515 516 516 517 5 559 5 557 5 570 6	94 506 98 499 95 509 97 982 10 514 119 119 1552 554 158 601 160 561	500 512 523 555 609 562	772 952 0.047 μ 4.7 μ F/ 606 3300 μ 9	F 16V F/16V			CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25 CKSQYB103K25 CCSQCH681J50 CCG1008 CFTNA474J50 CEA4R7M35LL CCSQCH120J50 CCH1165 CKSQYB102K50 CCH1150 CKSQYB104K25 CQMA104J50 CEA100M16LL CCSQCH220J50	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018 R 1019 R 1020 R 1021 R 1022 R 1027 R 1028 R 1301 1302 R 1303 1606 1607 R 1304 R 1305 1306 1705 R 1308 R 1314 R 1317		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S622J RS1/16S563J RS1/16S563J RS1/16S563J RS1/16S513J RS1/16S183J RS1/16S183J RS1/16S122J RS1/16S222J RS1/16S232J RS1/16S332J RS1/16S123J RS1/16S123J RS1/16S123J RS1/16S123J RS1/16S123J RS1/16S123J RS1/16S123J RS1/16S123J RS1/16S123J
493 4 495 4 501 5 502 6 504 5 511 513 515 516 516 518 5 550 551 5 556 559 5 559 5 570 6	94 506 98 499 05 509 07 982 10 514 119 152 554 168 601 168 661 168 661	500 512 523 555 609 562	772 952 0.047 μ 4.7 μ F/ 606 3300 μ 9	F 16V F/16V			CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25 CKSQYB103K25 CCSQCH681J50 CCG1008 CFTNA474J50 CEA4R7M35LL CCSQCH120J50 CCH1165 CKSQYB102K50 CCH1150 CKSQYB104K25 CQMA104J50 CEA100M16LL CCSQCH220J50 CEAS4R7M25	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018 R 1019 R 1020 R 1021 R 1022 R 1027 R 1028 R 1301 1302 R 1303 1606 1607 R 1304 R 1305 1306 1705 R 1308 R 1314 R 1317 R 1601		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S622J RS1/16S563J RS1/16S563J RS1/16S513J RS1/16S513J RS1/16S183J RS1/16S123J RS1/16S222J RS1/16S223J RS1/16S233J RS1/16S123J RS1/16S123J RS1/16S123J RS1/16S303J RS1/16S303J
493 4 495 4 501 5 502 6 504 5 511 5 518 5 518 5 518 5 551 5 551 5 552 5 559 5 559 5 570 6	94 506 98 499 05 509 07 982 10 514 119 152 554 158 601 160 561 160 561	500 512 523 555 609 562	772 952 0.047 μ 4.7 μ F/ 606 3300 μ 9	F 16V F/16V			CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25 CKSQYB103K25 CCSQCH681J50 CCG1008 CFTNA474J50 CEA4R7M35LL CCSQCH120J50 CCH1165 CKSQYB102K50 CCH1150 CKSQYB104K25 CQMA104J50 CEA100M16LL CCSQCH220J50 CEAS4R7M25 CKSQYB104K25 CKSQYB104K25 CKSQYB104K25 CKSQYB104K25 CKSQYB104K25 CKSQYB104K25 CKSQYB104K25 CKSQYB104K25	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018 R 1019 R 1020 R 1021 R 1022 R 1027 R 1028 R 1301 1302 R 1303 1606 1607 R 1304 R 1305 1306 1705 R 1308 R 1314 R 1317		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S622J RS1/16S563J RS1/16S563J RS1/16S563J RS1/16S513J RS1/16S183J RS1/16S183J RS1/16S122J RS1/16S222J RS1/16S232J RS1/16S332J RS1/16S123J RS1/16S123J RS1/16S123J RS1/16S123J RS1/16S3473J
493 4 495 4 501 501 5 502 502 6 503 515 516 518 5 551 5 556 5 557 5 603 604 6	94 506 98 499 05 509 07 982 10 514 119 152 554 158 601 160 561 160 561	500 512 523 555 609 562	772 952 0.047 μ 4.7 μ F/ 606 3300 μ 9	F 16V F/16V			CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25 CKSQYB103K25 CCSQCH681J50 CCG1008 CFTNA474J50 CEA4R7M35LL CCSQCH120J50 CCH1165 CKSQYB102K50 CCH1165 CKSQYB104K25 CQMA104J50 CEA100M16LL CCSQCH220J50 CEA54R7M25 CKSQYB104K25 CCSQCH150J50	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018 R 1019 R 1020 R 1021 R 1022 R 1027 R 1028 R 1301 1302 R 1303 1606 1607 R 1304 R 1305 1306 1705 R 1308 R 1314 R 1317 R 1601 R 1604 1605		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S622J RS1/16S563J RS1/16S563J RS1/16S513J RS1/16S513J RS1/16S123J RS1/16S222J RS1/16S222J RS1/16S223J RS1/16S123J RS1/16S123J RS1/16S123J RS1/16S123J RS1/16S123J RS1/16S322J
2 493 4 495 4 501 502 6 502 502 6 503 511 513 515 516 516 518 5 516 557 5 6 557 6 6 571 5 6 571 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	94 506 98 499 05 509 07 982 10 514 119 152 554 158 601 160 561 160 561	500 512 523 555 609 562	772 952 0.047 μ 4.7 μ F/ 606 3300 μ 9	F 16V F/16V			CKSQYB223K25 CKSQYB562K50 CCSQCH330J50 CCSQCH101J50 CKSQYB473K25 CKSQYB103K25 CCSQCH681J50 CCG1008 CFTNA474J50 CEA4R7M35LL CCSQCH120J50 CCH1165 CKSQYB102K50 CCH1150 CKSQYB104K25 CQMA104J50 CEA100M16LL CCSQCH220J50 CEAS4R7M25 CKSQYB104K25 CKSQYB104K25 CKSQYB104K25 CKSQYB104K25 CKSQYB104K25 CKSQYB104K25 CKSQYB104K25 CKSQYB104K25	R 1006 R 1007 R 1011 1012 R 1014 1015 1310 R 1018 R 1019 R 1020 R 1021 R 1022 R 1027 R 1028 R 1301 1302 R 1303 1606 1607 R 1304 R 1305 1306 1705 R 1308 R 1314 R 1317 R 1601		RS1/16S823J RS1/16S182J RS1/16S333J RS1/16S683J RS1/16S682J RS1/16S622J RS1/16S622J RS1/16S513J RS1/16S513J RS1/16S133J RS1/16S222J RS1/16S222J RS1/16S223J RS1/16S332J RS1/16S133J RS1/16S103J RS1/16S103J RS1/16S103J RS1/16S102J

DEH-605RD8,505SDK,505,405SDK,405

C 1001 1008 1010 1011 1303 C KSRYB102K50 C EV10 MBRQ C	====Circuit Symbol & No. Part Name=====	Part No.	=====Circuit Symbol & !		Part No.
C 1001 1008 1019 1011 1303 C CKSRY8102K50 C 1002 1690 706 C CEV101M8R3 C 1003 C 1004 C CEV101M8R3 C 1004 C CEV101M8R3 C 1006 C 1007 C 1008 C 1008 C 1007 1704 C 1008 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CAPACITORS				
CEV101M8R3 C 1004 C 1003 C 1004 C 1004 C 1006 C 1006 C 1006 C 1006 C 1007 1704 C 1007 1707	C 1001 1008 1010 1011 1303	CKSRYB102K50			
C 1003 C 1003 C 1004 C 1004 C 1004 C 1005 C 1006 C 1007 C 1008 C 1007 C 1008 C 1007 C 1008 C 1007 C 1009 C 1009 C 1007 C 1009 C 1007 C 1009 C 1007 C 1009 C 1007 C	C 1002 1609 1706		· ,		
C 1005 C 1006 C 1007 C 1	C 1003	CKSQYB104K16	MISCELLANEOUS		
C 1006 C 1007 T004 C CKSRYB661K50 D 921 922 923 Lamp 14V 40mA CEL1297 C CKSRYB31K150 IL 921 922 923 Lamp 14V 40mA CEL1297 C CSRCH181L5D IL 924 925 926 Lamp 14V 40mA CEL1297 C CSRCH181L5D IL 924 925 926 Lamp 14V 40mA CEL1297 C CSRCH181L5D IL 924 925 926 Lamp 14V 40mA CEL1297 C CSRCH181L5D IL 924 925 926 Lamp 14V 40mA CEL1297 C CSRCH181L5D IL 924 925 926 Lamp 14V 40mA CEL1297 C CSRCH181L5D IL 924 925 926 Lamp 14V 40mA CEL1297 C CSRCH181L5D IL 924 925 926 926 926 926 926 926 926 926 926 926	C 1004				
C 1006 C 1007 1704 C 1007 1707 1704 C 1007 1707 1704 C 1007 1707 1707 1707 1707 1707 1707 17	C 1005	CCSRCH101J50		(DELL COCODY COC)	
C 1007 1704 C 1009 C 1001 1000 1600 C 1009 C 1001 1000 1600 C 1001 1000 C 1001 1001 1001 1001 1001 1001 1001 1000 C 1001	C 1008	CKCDABEGIKEU		(DEH-5055DK,505)	
C 1009 C 1012 1307 1310 1805 1808 C CSRCH181J50 C LSPX1913K50 CKSRY8472K50 R 921 30 30 31 K5 1058570J R5 1058572J R5 10523 CKSRY84656 CKSRY8432K50 R 924 927 31 935 R5 1058572J R5 10523 CKSRY84656 CKSRY8432K50 R 924 927 31 935 R5 1058572J R5 1058282J R5 105233 CKSRY8465K50 R 924 927 31 935 R5 1058282J R5 1105823J R5 105823J R5 10				Lamp 14V 40mA	
C 1012 1307 1310 1805 1808 C 1013	C 1009				
C 1014 C 1015 1016 1017 1018 1201 1202 CCSRCH220J50 C 1021 CC 1021 CCSVF106216 R 921 (DEH-505SDK,505) RS1/105470_C 1022 CKSVF106216 R 921 927 931 935 RS1/1058223_C 1022 CKSVF1065165 R 924 927 931 935 RS1/1058223_C 1022 CKSVF1067165_C 1022 CKSVF106716_C 1022 CKSV	C 1012 1307 1310 1605 1608				
C 1015 1016 1017 1018 1201 1202 C C1021 C C1021 C C1022 C CKSRYB332/K50 C T1023 C C1023 C CKSRYB532/K50 C R 923 926 930 934 R\$1/1051333 C T301 1302 C T301 1302 C CKSRYB6832Z5 C T304 C CKSRYB683Z5 C T304 C C1035 C T305 C T305 C T305 C T306 C T306 C T306 C T307 C T308 C T307 C T308 C	C 1013	CKSRYB472K50	LCD901	LCD	CAW1229
C 1015 1016 1017 1018 1201 1202 C C1021 C C1021 C C1022 C CKSRYB332/K50 C T1023 C C1023 C CKSRYB532/K50 C R 923 926 930 934 R\$1/1051333 C T301 1302 C T301 1302 C CKSRYB6832Z5 C T304 C CKSRYB683Z5 C T304 C C1035 C T305 C T305 C T305 C T306 C T306 C T306 C T307 C T308 C T307 C T308 C	C 1014	CCCBCH330 IE0	DESISTORS		
C 1021			NESISTONS		
C 1022			R 921	(DEH-505SDK.505)	RS1/10S470J
C 1301 1302	C 1022			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
C 1301 1302	C 1023	CKSRYB561K50	R 924 927 931 935		RS1/10S133J
C 1306 C C 1305 C C 1305 C C SRVB152K50 C C 1305 C C SRVB271K50 R 940 941 942 R S1/10S103J C 1308 C C 1308 C C SRVF103Z50 R 940 941 942 R S1/10S103J C 1308 C C 1309 C C					
C 1305 C KSRYB271K50 R 936 939 R51/105104J R51/105	C 1301 1302		R 929 933 937		RS1/10S683J
C 1398			D 020 020		DC1/10C1041
C 1801					
C 1801 CCSRCH151JS0 CCSRCH161JS0 CCSRCH160D50 C 921 (DEH-505SDK,505) CEA470M8R3 C 922 CCSCCH301J5 CCSRCH90D50 C 923 CCSCCH301J5 CCSRCH90D50 C 923 CCSCCH301J5 CCSRCH90D50 C 923 CCSCCH301J5 CCSRCH90D50 C 925 CCSCCH301J5 CCSRCH90D50 C 925 CCSCCH301J5 CCSRCH90D50 C 925 CCSCCH301J5 CCSRCH90D50 C 925 CCSCCH301J5 CCSRCH100D50			11 340 341 342		113 1/103 1033
C 1902 C 1902 C CSRCH100D50 C 2 921 (DEH-505SDK,505) CEA470M8R3 C 1908 1804 1705 C KSV8224K16 C 2922 C CSSCCH301J5 C 1808 1804 1705 C CSSCH301J5 C 1908 1807 C 1912 C CSSCH301J5 C 1913 1814 C CEV4R7M35 C CSSCH301J5 C CSSCH100D50 C CEV220M16 Unit Number : CWX1661(DEH-605RDS) Unit Number : CWX1661(DEH-605RDS) Unit Number : Key Board Unit Williams : CSSCH301J5 C CSSCH3			CAPACITORS		
C 1903 1904 1705 C 1908 1804 1705 C 1908 1807 C 1808 1808 C 1808 1	C 1601				
C 1906 1907 C 1908 1907 C 1912 C 1912 C 1912 C 1913 C 1914 C 1915 C 1915 C 1916 1 1914 C 1917 1 1912 C 1917				(DEH-505SDK,505)	
C 1812 C 1812 C 1813 1814 C 1913 1913 1913 1914 1915 1916 1917 1918 1919 R S1/10S121J C CAPACITORS CEV220M6R3 C 2924 C 2925 C CKSQYF224Z2I C 1925 C CKSQYB103K5 C CCSCRCH100D50 C CSCRCH100D50 C CSCRCH					
C 925 CKSQYB103K5 C 1913 1814 C 1701 1702 C 1703 C 1703 C 1703 C 1701 1702 C 1703 C 1704 C 17					
C 1703					CKSQYB103K50
C 1703	C 1613 1614	CEV4R7M35			
Unit Number : CWX1661(DEH-605RDS) Unit Number : Key Board Unit MISCELLANEOUS Miscellaneous Parts List Miscellaneous Par	C 1701 1702				
Unit Number : CWX1661(DEH-605RDS) Unit Name : Key Board Unit MISCELLANEOUS Miscellaneous Parts List Miscellaneous Parts	C 1703	CEV220M16		PC Roard	
Unit Name : Key Board Unit MISCELLANEOUS Miscellaneous Parts List IC 901					
C 901			P 1 2	Photo Transistor	PT4800
Q 901 902 Q 903 Q	MISCELLANEOUS		Miscellaneous Parts List		
Q 901 902 Q 903 Q	IC 901	PD6122A	M 1	Motor Unit(Spindle)	CXA5703
UN2211 M 3 Motor Unit(Loading) CXA6456 D 901 902 MA153-MC MA3047M L 901 Coil LCTB150K3216 X 901 Unit Unit Unit Unit Unit Unit Unit Unit	Q 901 902				
MA3047M L 901	Q 903	UN2211	M 3		
X 901	D 901 902 D 903			PU Unit	CGY1031
X 901	1 901 Coil	I CTRIENKSSIE			
IL 901 902 903					
IL 904 905 906					
RESISTORS R 901 902 903 908					
R 901 902 903 908 RS1/8S222J R 904 906 RS1/10S472J R 905 907 RS1/10S332J R 909 910 RS1/8S471J R 911 912 913 914 915 916 917 918 919 RS1/10S471J R 920 RS1/10S121J CAPACITORS	LCD901 LCD	CAW1228			
R 904 906 RS1/10S472J R 905 907 RS1/10S332J R 909 910 RS1/8S471J R 911 912 913 914 915 916 917 918 919 RS1/10S471J R 920 RS1/10S121J CAPACITORS	RESISTORS				
R 904 906 RS1/10S472J R 905 907 RS1/10S332J R 909 910 RS1/8S471J R 911 912 913 914 915 916 917 918 919 RS1/10S471J R 920 RS1/10S121J CAPACITORS	R 901 902 903 908	RS1/8S222J			
R 905 907 R 909 910 RS1/10S332J R 909 910 RS1/8S471J R 911 912 913 914 915 916 917 918 919 RS1/10S471J R 920 RS1/10S121J CAPACITORS	R 904 906				
R 911 912 913 914 915 916 917 918 919 RS1/10S471J R 920 RS1/10S121J CAPACITORS	R 905 907				
R 920 RS1/10S121J CAPACITORS	R 909 910				
CAPACITORS	H 911 912 913 914 915 916 917 918 919	RS1/10S471J			
	R 920	RS1/10S121J			
C 901 902 903 904 CKSQYB103K25	CAPACITORS				
	C 901 902 903 904	CKSQYB103K25			

● The DEH-505SDK, DEH-505, DEH-405SDK and DEH-405 Parts Lists enumerate the parts which differ from those enumerated in the DEH-605RDS Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-605RDS Parts List is given on page 1-42.

Tune	r Am	n U	nit
lulic	1 /1111	\sim	

Tuner Amp Unit		T		T	
	DEH-605RDS	DEH-505SDK	DEH-505	DEH-405SDK	DEH-405
Circuit Symbol & No.	Part No.	Part No.	Part No.	Part No.	Part No.
Tuner Amp Unit	CWX1648	CWX1649	CWX1651	CWX1650	CWX1652
IC601	PD4483B	PDR009B	PDR009B	PDR009B	PDR009B
IC771	CWV1044	CWV1045	••••	CWV1045	•••••
Q455,456,771	2SC2712	2SC2712	••••	2SC2712	•••••
Q601	DTC114EK	DTC114EK	•••••	DTC114EK	•••••
Q773	2SC2712	•••••	•••••	••••	••••
Q851,852	••••	2SC2712	2SC2712	••••	••••
D771	155133	••••	••••	••••	•••••
D772	MTZ4R7B	MTZ4R7B	••••	MTZ4R7B	••••
VR771	VRMB6VS222	••••	•••••	•••••	•••••
BZ601	CPV1011	CPV1011	••••	CPV1011	••••
X601	CSS1023	CSS1065	CSS1065	CSS1065	CSS1065
FM/AM Tuner Unit	CWE1313	CWE1311	CWE1311	CWE1311	CWE1311
R605,606,780	RS1/10S102J	RS1/10S102J	•••••	RS1/10S102J	••••
R607,779	•••••	RS1/10S0R0J	••••	RS1/10S0R0J	••••
R608	••••	RS1/10S0R0J	RS1/10S0R0J	RS 1/10S0R0J	RS1/10S0R0J
R609	••••	••••	••••	RS 1/10S0R0J	RS1/10S0R0J
R611	••••	••••	RS1/10S473J	•••••	RS1/10S473J
R613	••••	R\$1/10\$473J	RS1/10S473J	•••••	••••
R614	••••	RS1/10S473J	RS1/10S473J	RS1/10S473J	RS1/10S473J
R615		RS1/10S102J	•••••	RS1/10S102J	••••
R636,637,638,639	•••••	RD1/4PS103JL	RD1/4PS103JL	RD1/4PS103JL	RD1/4PS103JL
R640,641,642,643	••••	RS1/10S103J	RS1/10S103J	RS1/10S103J	RS1/10S103J
R644	•••••	RS1/10S103J	RS1/10S103J	RS1/10S103J	RS1/10S103J
R648	RS1/10S682J	RS1/10S0R0J	RS1/10S0R0J	RS 1/10S0R0J	RS 1/10S0R0J
R649	•••••	RS1/10S105J	RS1/10S105J	RS1/10S105J	RS1/10S105J
R673	RD1/4PS103JL	•••••	•••••	•••••	•••••
R771	RS1/10S471J	RS1/10S471J	•••••	RS1/10S471J	•••••
R772	RS1/10S473J	RS1/10S4713	••••	RS1/10S473J	••••
R773,774,775,776	RS1/10S473J	••••	••••	••••	••••
R777,778	RS1/10S473J	••••	••••	••••	••••
R781	RS1/10S152J	RS1/10S152J	••••	RS1/10S152J	••••

DEH-605RD8,5058DK,505,4058DK,405

	DEH-605RDS	DEH-505SDK	DEH-505	DEH-405SDK	DEH-405
				Part No.	Part No.
Circuit Symbol & No.	Part No.	Part No.	Part No.		
Tuner Amp Unit	CWX1648	CWX1649	CWX1651	CWX1650	CWX1652
R782	RS1/10S332J	RS1/10S332J	••••	RS1/10S332J	••••
R783	RS1/10S102J	••••	•••••	••••	••••
R784	RS1/10S101J	RS1/10S101J	••••	RS1/10S101J	••••
R851,852	••••	RD1/4PS821JL	RD1/4PS821JL	••••	••••
R853,854	••••	RS1/10S222J	RS1/10S222J	•••••	••••
R855,856	••••	RS1/10S223J	RS1/10S223J	•••••	•••••
C604,605	CCSQCH150J50	••••	••••	••••	••••
C610	CKSQYB104K25	•••••	••••	••••	•••••
C772	CKSQYB103K25	CKSQYB103K25	••••	CKSQYB103K25	••••
C773	CEA100M16LL	CEA100M16LL	••••	CEA100M16LL	••••
C851	•••••	CEAS100M16	CEAS100M16	••••	••••
C852	••••	CEA100M16LL	CEA100M16LL	••••	••••
C853,854	••••	CCSQCH221J50	CCSQCH221J50		••••



Service

ORDER NO. CRZ1563

The chapter 1 of this Service Manual will not be reprinted. On your additional orders, we may supply only the chapter 2. For the chapter 1, please make copies and attach to the chapter 2 at your side if necessary.

HIGH POWER CD PLAYER WITH RDS TUNER

HIGH POWER CD PLAYER WITH FM/MW/LW TUNER

● See the service manual CX-540(CRT1574) for the CD mechanism description, disassembly and circuit description.

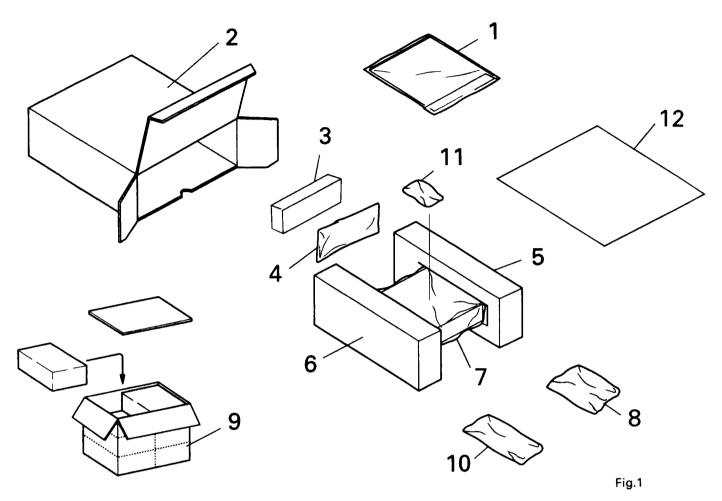
CHAPTER 2

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PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan PIONEER ELECTRONICS SERVICE INC. P.O.Box 1760, Long Beach, California 90801 U.S.A PIONEER ELECTRONICS OF CANADA, INC. 300 Allstate Parkway Markham, Ontario L3R 0P2 Canada PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium
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1. PACKING METHOD



● Parts List(DEH-605RDS)

Mark	No.	Description	Part No.
	1-1	Owner's Manual	CRD1717
	1-2	Owner's Manual	CRD1718
	1-3	Installation Manual	CRD1719
*	1-4	Card	CRY-062
*	1-5	Passport	CRY1013
*	1-6	Caution Card	CRP1129
	1-7	Polyethylene Bag	CEG1116
		Carton	CHG2427
	3	Case	CNS2269
	4	Cord Assy	CDE4142
	5	Protector	CHP1603
	6	Protector	CHP1602
	7	Cover	CEG1092
	8	Accessory Assy	CEA1917
	8-1	Screw	CBA1284

#: Non Spare Part

Mark	No.	Description	Part No.
	8-2	Handle(X2)	CNC4947
	8-3	Bush	CNV1009
*	8-4	Polyethylene Bag	E36-615
	9	Contain Box	CHL2427
	10	• • • • •	
	11	••••	
	12	Spacer(except X1B m	odel) CHW1387

● The DEH-505SDK, DEH-505, DEH-405SDK and DEH-405 Parts Lists enumerate the parts which differ from those enumerated in the DEH-605RDS Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-605RDS Parts List is given on page 2-2.

Mark	No.	Description	DEH-605RDS	DEH-505SDK	DEH-505	DEH-405SDK	DEH-405
	1-1	Owner's Manual	CRD1717	CRD1723	CRD1720	CRD1723	CRD1720
	1-2	Owner's Manual	CRD1718	••••	••••	•••••	••••
*	1-5	Passport	CRY1013	CRY1013	•••••	CRY1013	••••
	2	Carton	CHG2427	CHG2429	CHG2428	CHG2420	CHG2419
	9	Contain Box	CHL2427	CHL2429	CHL2428	CHL2420	CHL2419
	10	Accessory Assy	••••	CEA1473	CEA1473		••••
	11	Remote Control Assy	••••	CXA6155	CXA6155	••••	••••

Owner's Manual

Model	Part No.	Language
DEH-605RDS	CRD1717	English, French, Italian, German, Dutch, Spanish, Portuguese
	CRD1718	Swedish, Norwegian, Finnish
DEH-505SDK,405SDK	CRD1723	French, German
DEH-505,405	CRD1720	English, French, Italian, German, Dutch, Spanish, Portuguese, Swedish, Norwegian, Finnish

Installation Manual

Model	Part No.	Language
DEH-605RDS,	CRD1719	English, French, Italian, German, Dutch, Spanish, Portuguese
DEH-505SDK,505,		Swedish, Norwegian, Finnish
DEH-405SDK,405		

● X1B/EW Model

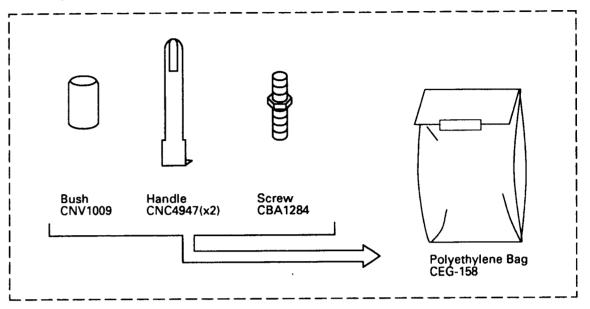
Mark	No.	Description	DEH-605RDS/EW	DEH-605RDS/X1B/EW
	1-2	Owner's Manual	CRD1718	••••
*	1-4	Card	CRY-062	URY-001
*	1-5	Passport	CRY1013	CRY1014
	1-7	Polyethylene Bag	CEG1116	E36-618
	7	Cover	CEG1092	UEG-002
	9	Contain Box	CHL2427	UHD-002

Mark	No.	Description	DEH-505/EW	DEH-505/X1B/EW
*	1-4	Card	CRY-062	URY-001
	1-7	Polyethylene Bag	CEG1116	E36-618
	7	Cover	CEG1092	UEG-002
	9	Contain Box	CHL2428	UHD-002

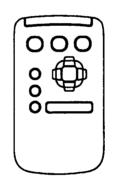
Mark	No.	Description	DEH-405/EW	DEH-405/X1B/EW
*	1-4	Card	CRY-062	URY-001
	1-7	Polyethylene Bag	CEG1116	E36-618
	7	Cover	CEG1092	UEG-002
	9	Contain Box	CHL2419	UHD-002

Accessory Assy

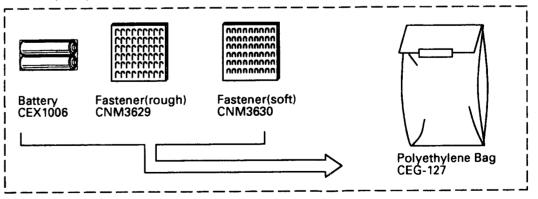
Accessory Assy CEA1917



Remote Control Assy CXA6155



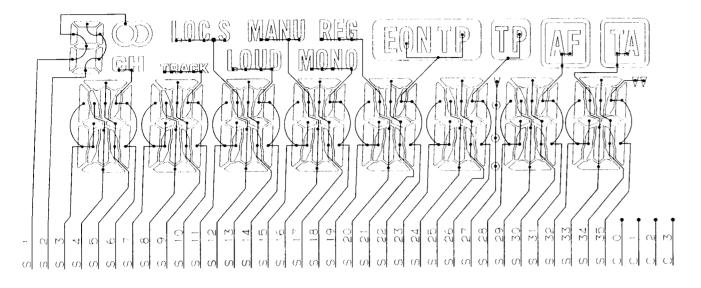
Accessory Assy CEA1473



DEH-605RD8,5058DK,505,4058DK,405

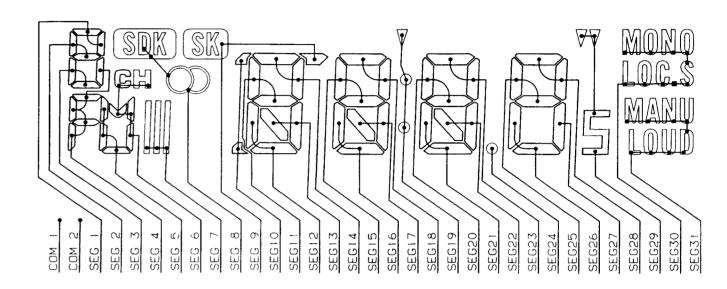
● LCD(CAW1228).....DEH-605RDS

SEGMENT

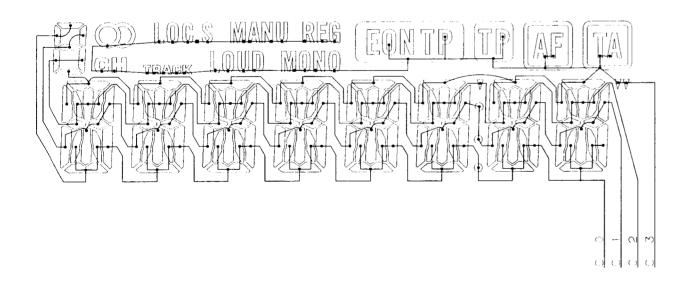


● LCD(CAW1229)......DEH-505SDK,505,405SDK,405

SEGMENT



COMMON



COMMON

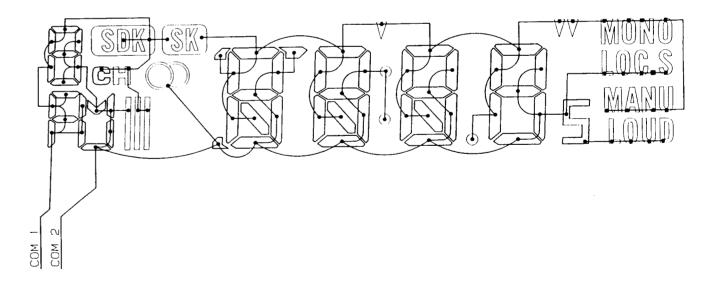


Fig.4

2. BLOCK DIAGRAM

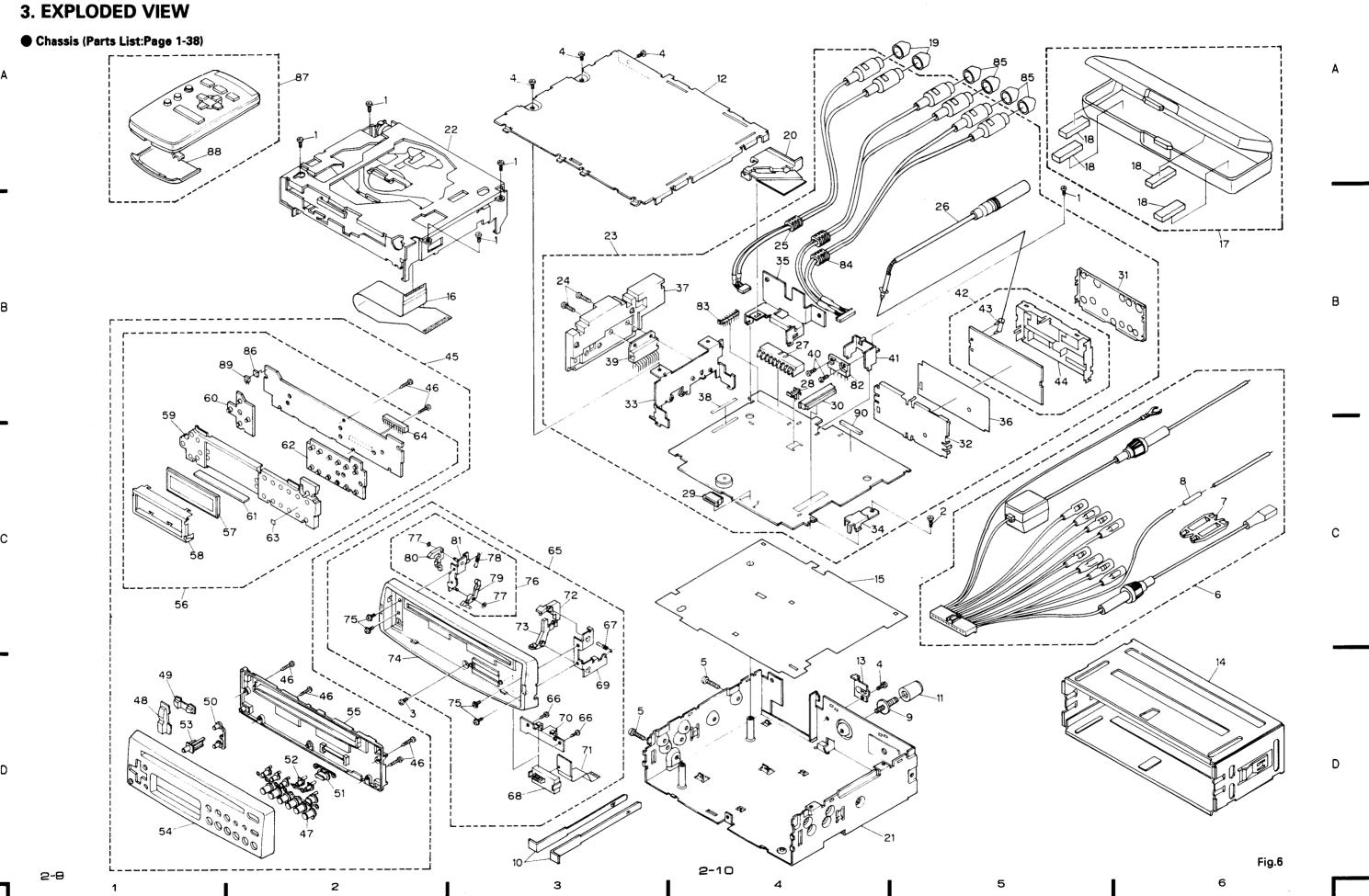
● DEH-605RDS

В

PU UNIT (CGY1031) TUNER AMP UNIT (CWX1648) CONTROL UNIT (CWX1641) (**(** TRACKING - 2 IC 471 NJM455BL VCK/VDT/VST 26 30 312 SPINDLE (M)-Q 863 MUTE B REMOTE 8 8 EJTD D I NC SYSPW **€** LOAD DETECTOR P.C.BOARD LOADING MOTOR ASENS BSENS MUTE/A SENSE/B SENSE/RESET & VDD POWER 25 TMUTE FM/AM FM/AM TUNER UNIT (CWE1313) **|-**-(B)-**600** MUTE/TUN/SYSTEM +B POWER IC 971 PA2023A FM PROCESSOR IC 2 PA2022A FM/AM PROCESSOR IC 1 PA20218 SYSTEM +B 4 0509 0508 FM LOOP FILTER SELECT 12 2 AM 1 F AMP --(FM/AN)---0772 Q505 Q504 LW , AM LOOP FILTE 8 8 €\$. 902 ₩ LLUMI COLOR SELECT SWITCH VLCD. **@@@** 999# L904~906 LCD DRIVER KEY BOARD UNIT (CWX1661) Fig.5

2-7

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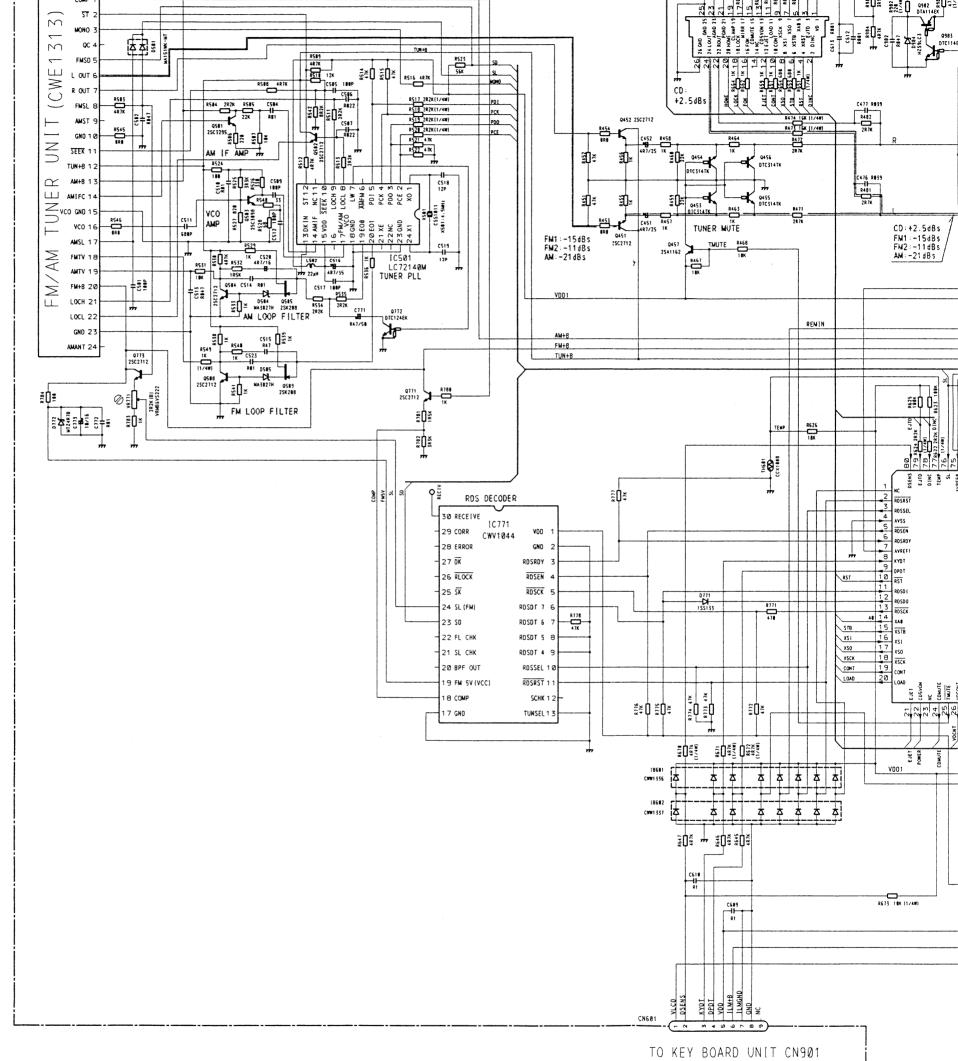


4. CIRCUIT DIAGRAM AND PATTERN 4.1 TUNER AMP UNIT(DEH-605RDS) → FM/AM TUNER UNIT Connection Diagram ADJ IC. Q → CORD ASSY 墩 Q501 Q502 00000000000 000000000000 Q773 IC971 CN951 ... 0 0 0 VR771 Q771 Q956 Q957 P Q503 D772 Q452 IC501 IC771 Q451 Q508 •c=3• £513 B552 C553 Q504 •c::>• 8455 Q509 Q505 8552 12343 •11 € C451 D504 Q505_{R534} REAR OUT Q457 Q772 CN851 Q864 Q862 Q863 Q453 Q454 (1)(2)(3)(4)(5)* * * * Q456 Q455 IC551 IC471 C954 • 8 • -#4 4 IC482 IC601 !C483 Q551 CONTROL UNIT CN1701 IC961 C485 - H C489 - -9871 IC481 •c → R983 A 0981 Q981 1 0602 Q602 Q606 0982 1234567899 Q982 Q605 Q983 Q601 Q604 Q603 Q607 Q605 R606 ¥ R982 R605 Q601 3 1 CN601 0983 40607 Q603 → KEY BOARD UNIT CN901 Fig.8

Fig.7 2-11

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TUNER AMP UNIT (CWX1648) FROM CONTROL UNIT CN1701 12 CLANP
17 CLANP
17 CLANP
17 CLANP
17 CLANP
17 CLANP
17 CLANP
18 CN651 TUN501 COMP QC 4 **译型**章 FMSD 5 ≨≠¢ ≨¢≠ L OUT 6 R OUT RS11 2R2K(1/4W)
RS13 2R2K(1/4W)
RS13 7R2K(1/4W)
RS21 7R2K(1/4W)
RS21 4TK
RS21 4TK +2.5dBs FMSL Q452 25C2712 AMST GND 1 SEEK 1 **∄**)₹ Q456 DTC314TK



CD POWER SUPPLY

⊣⊩ Symbol i No diffe discrete

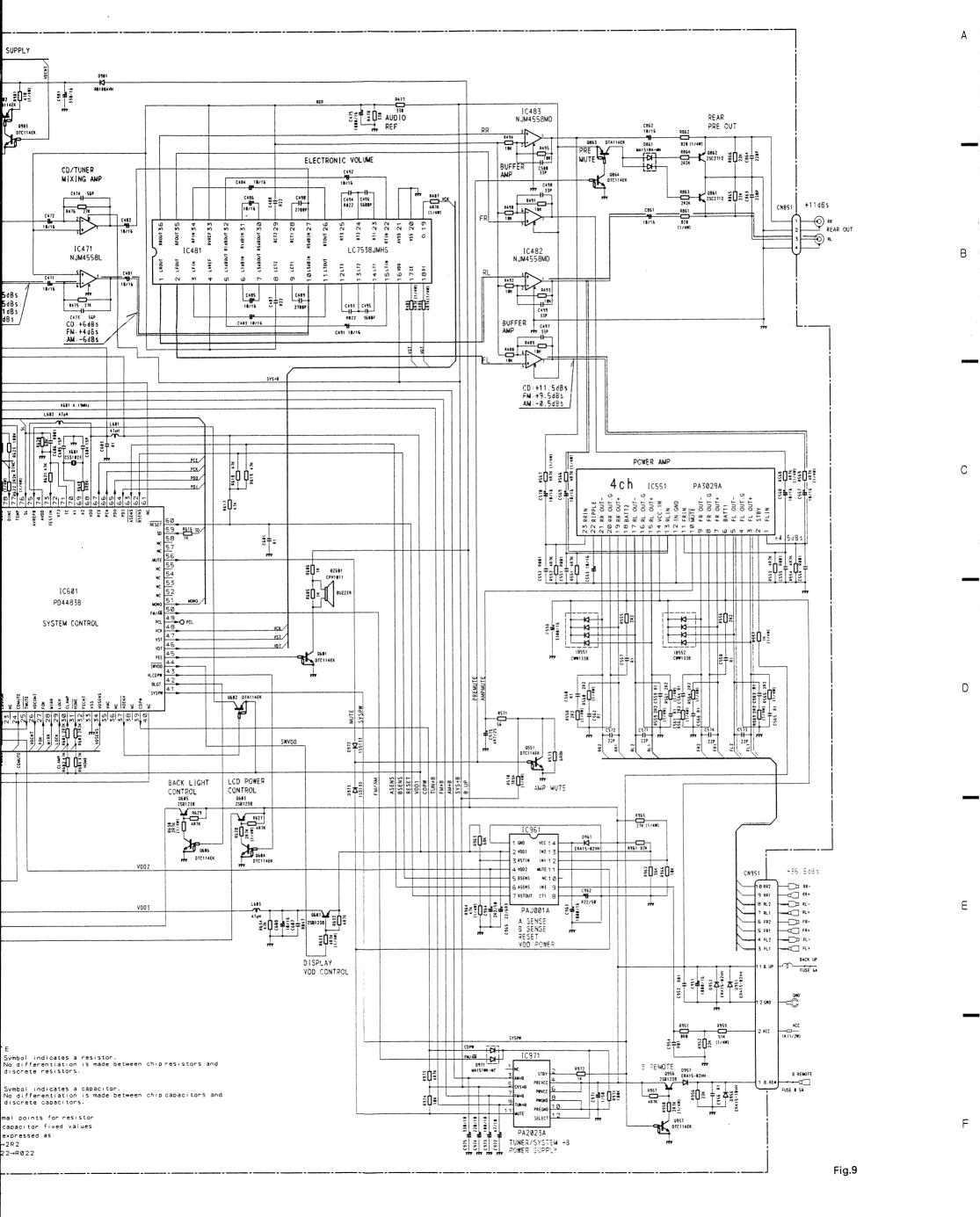
Decimal poin and capacito are expresse 2.2→2R2 0.022→R022

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4.2 TUNER AMP UNIT(DEH-505SDK,405SDK)

Circuit Diagram

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TUNER AMP UNIT (CWX1649) · · · · DEH-505SDK/TUNER AMP UNIT (CWX1650) · · · · DEH-405SDF FROM CONTROL UNIT CN1701 17 R65 1K M188
15 COMMIC
13 R65 1K ADME
11 R65 K1 ADM
2 R655 K2 X51
5 R657 K2 X51
5 R657 K3 X51
5 R657 K3 X51
5 R657 K3 X51 TUN501 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 MONO QC 4 2 FMSD 5 ш L OUT R OUT PO1 PCK C477 R059 R482 2R7K FMSL 8 R518 2R2K(1/4W) R519 2R2K(1/4W) R528 2R2K(1/4W) 25C3295 20 € 20 € AM | F AMP , 7,7 AMST POQ PCE GND 1 $\stackrel{\scriptstyle N}{\supset}$ SEEK 1 **≆**0ặ TUN+B 12 C476 R859 \propto AM+B 13 LLL AMIFC 1 VCO 16 FM1:-15d8s FM2:-11d8s AM:-21d8s AMSL 1 FM/AM IC501 LC72140M TUNER PLL AMTV 1 185K 1 22pH 4

Q584 C514 R81

C517

S584 C514 G585

G584 C514 R81

C517

MAS827N 25K288 R534

AM LOOP FILTER + 55 m FM+8 20 LOCH 2 LOCL 22 REMIN **≱** AM+B FM+B TUN+B AMANT 24 ž()= FM LOOP FILTER **≨**0≅ EO E THE BEST FWSV SDK DECODER £02 27 DK 26 RLOCK 25 SK 24 SL (FM) 14 15 23 SD CWV1045 STB 22 FL CHK XS0 20 BPF OUT CONT LOAD 19 FM 5V (VCC) 18 COMP ≘0₹ 1 7 GND П * * * * * * **本 | 本** | **Δ Δ Δ Δ Δ 本** | **本** | 20± 20± 20± 20± 20±. 30% T 30% 30% TO KEY BOARD UNIT CN921

Princuees DEH-GOS RDS

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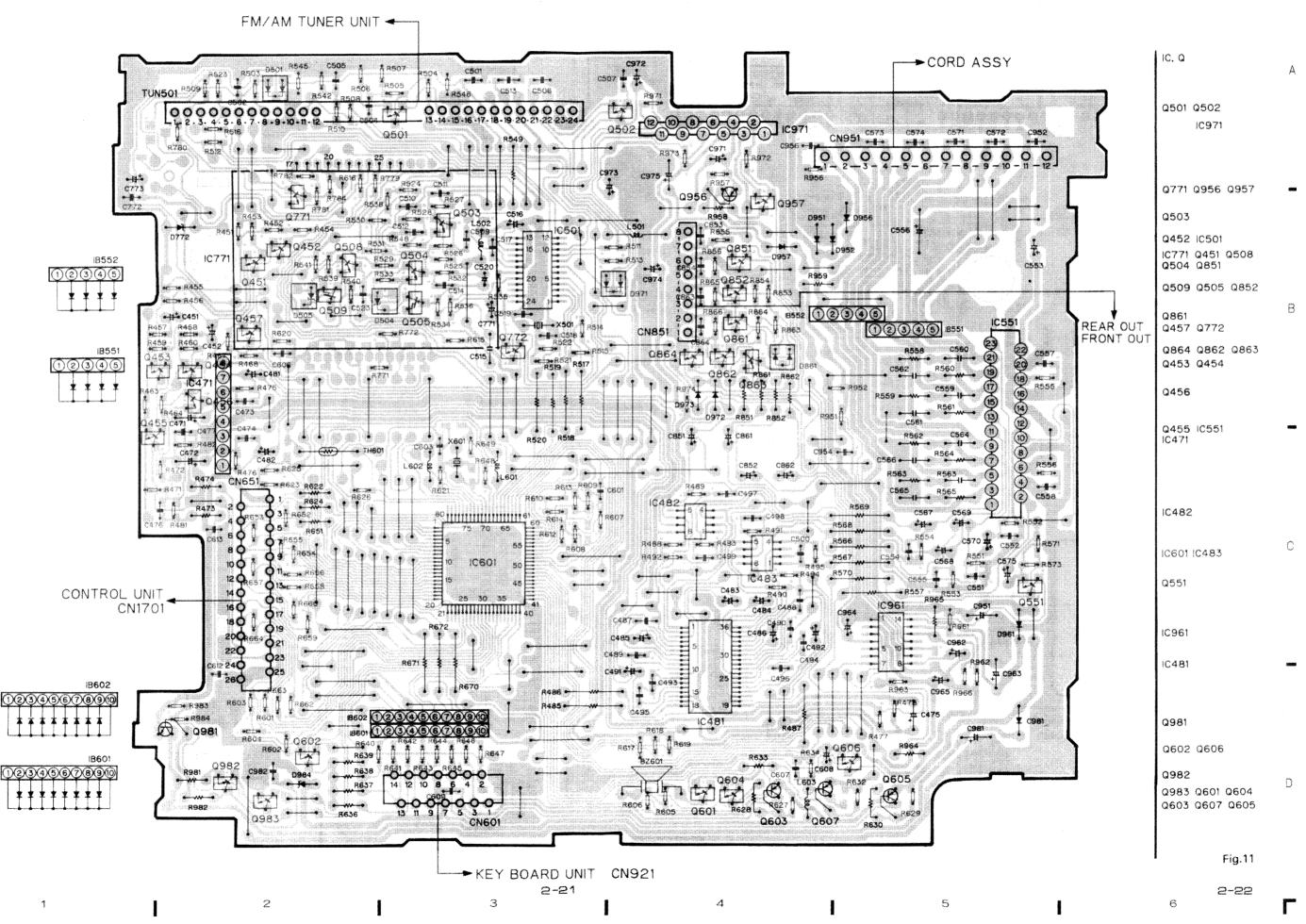
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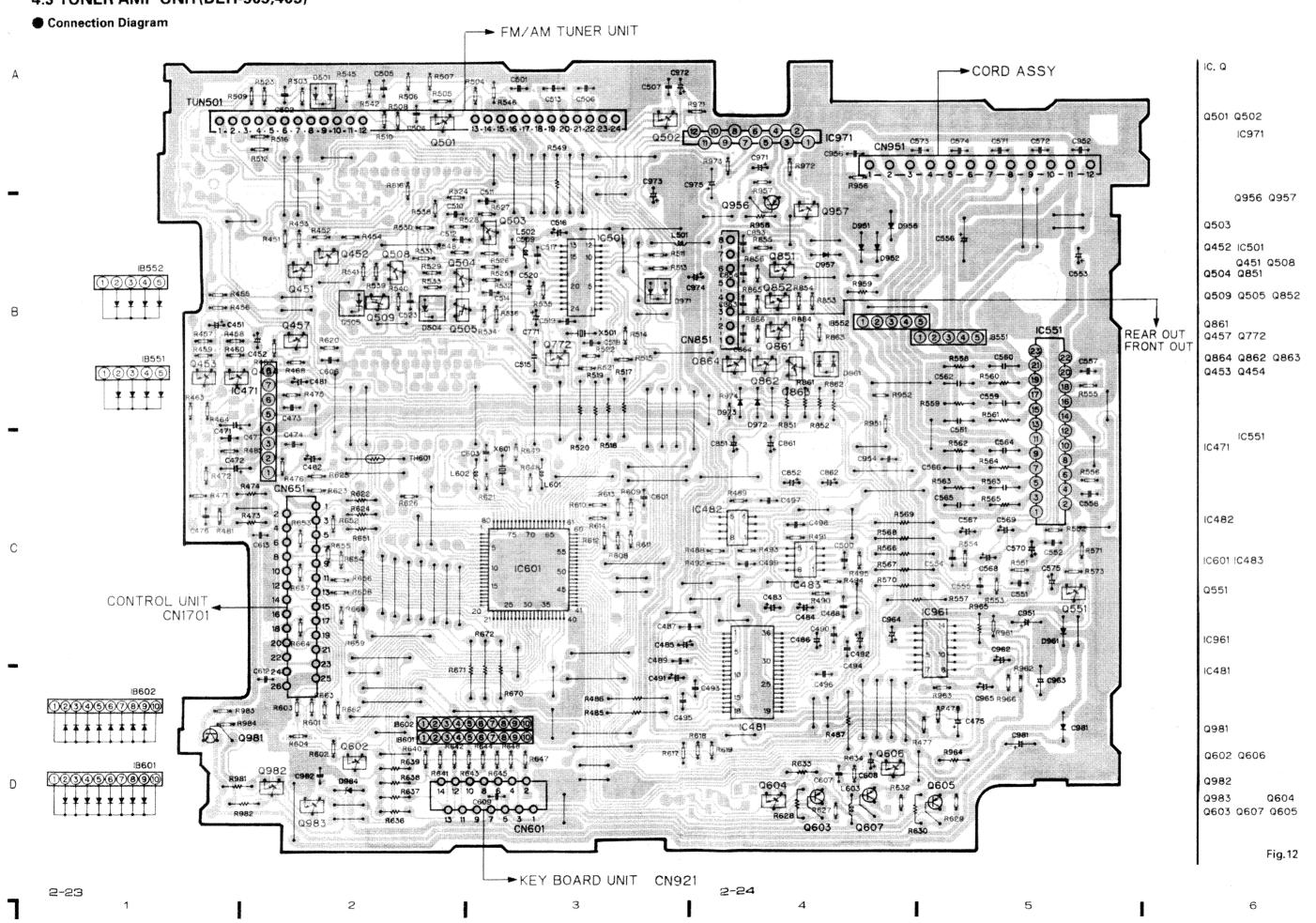
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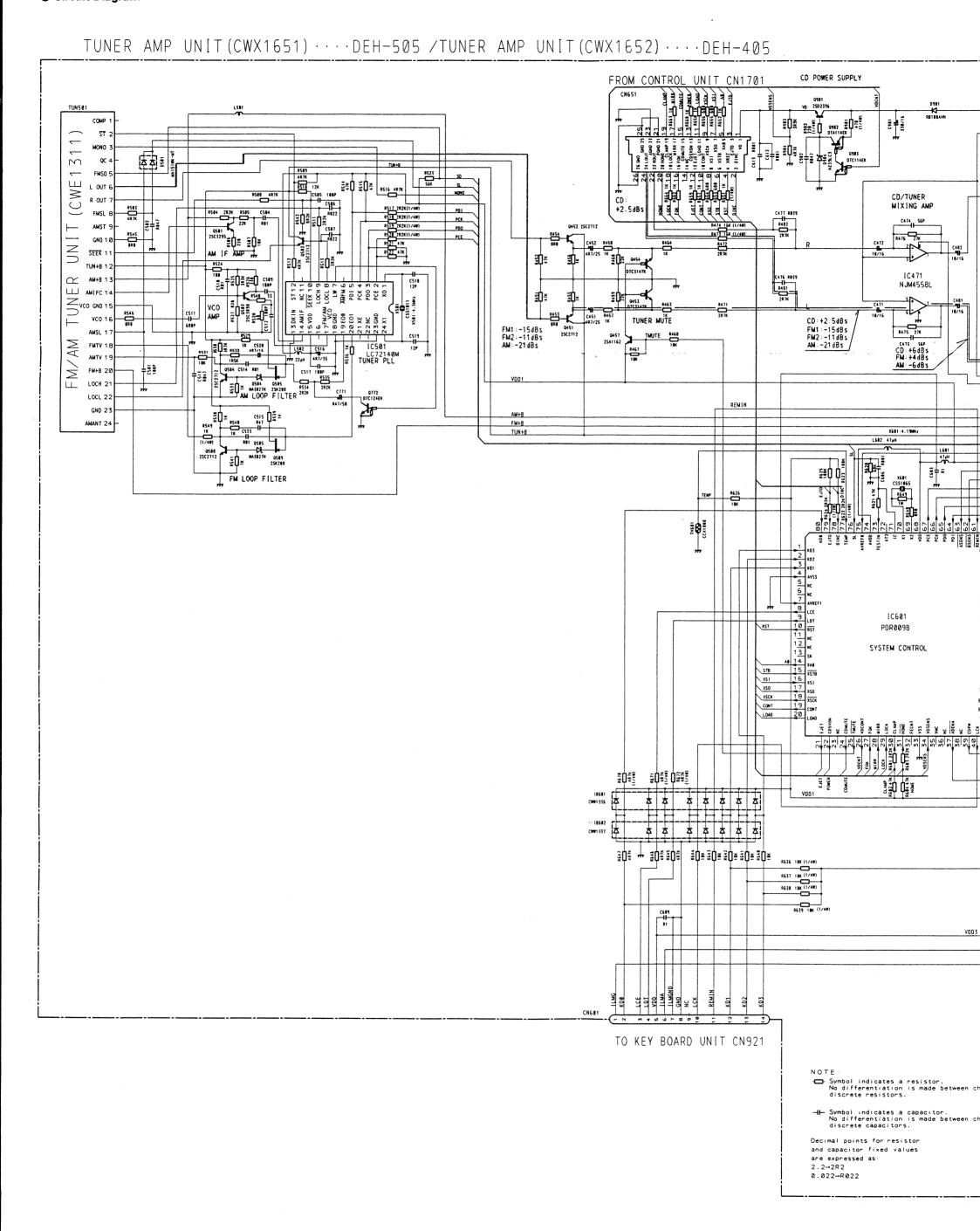
Connection Diagram



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4.3 TUNER AMP UNIT(DEH-505,405)

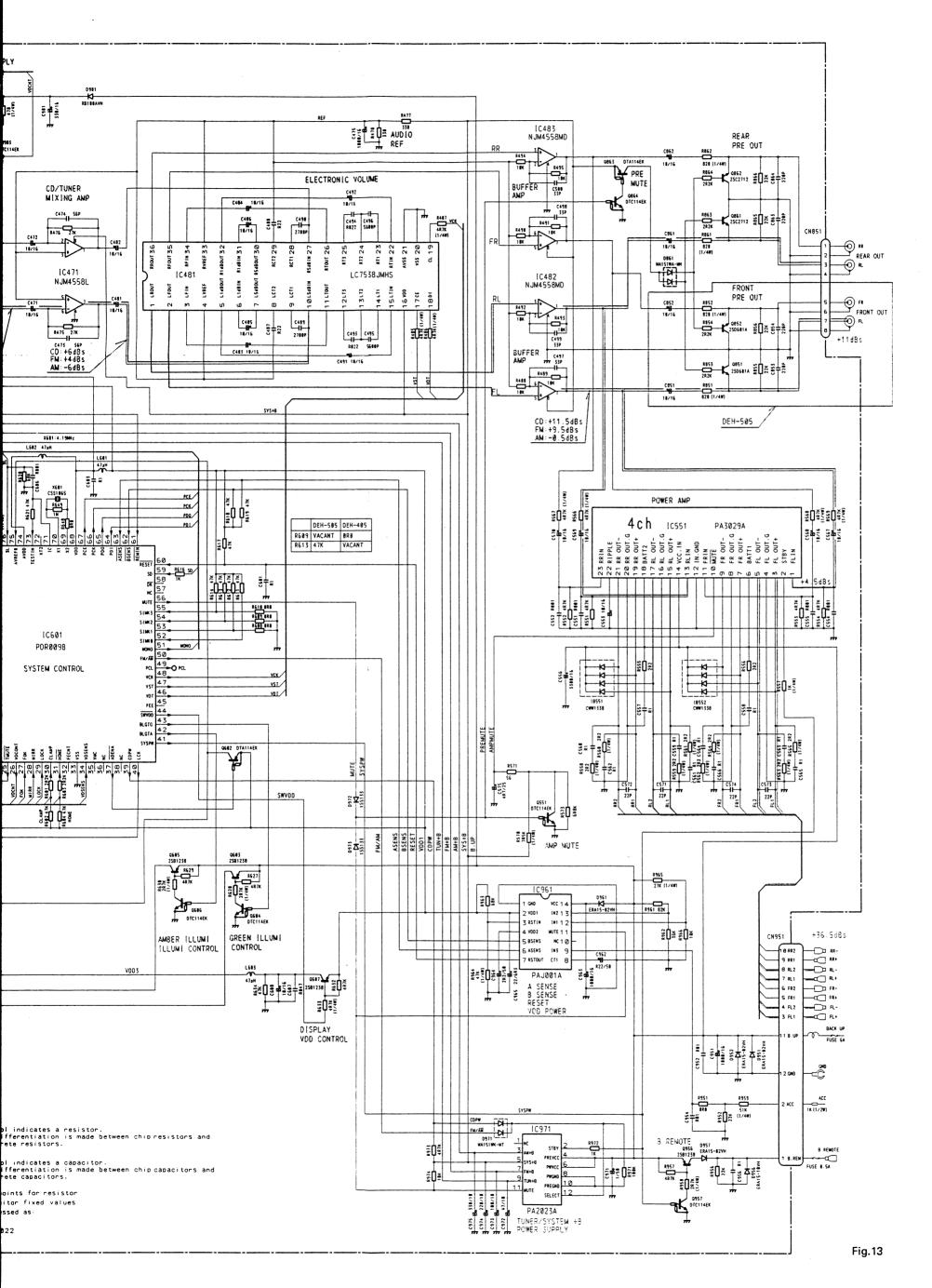




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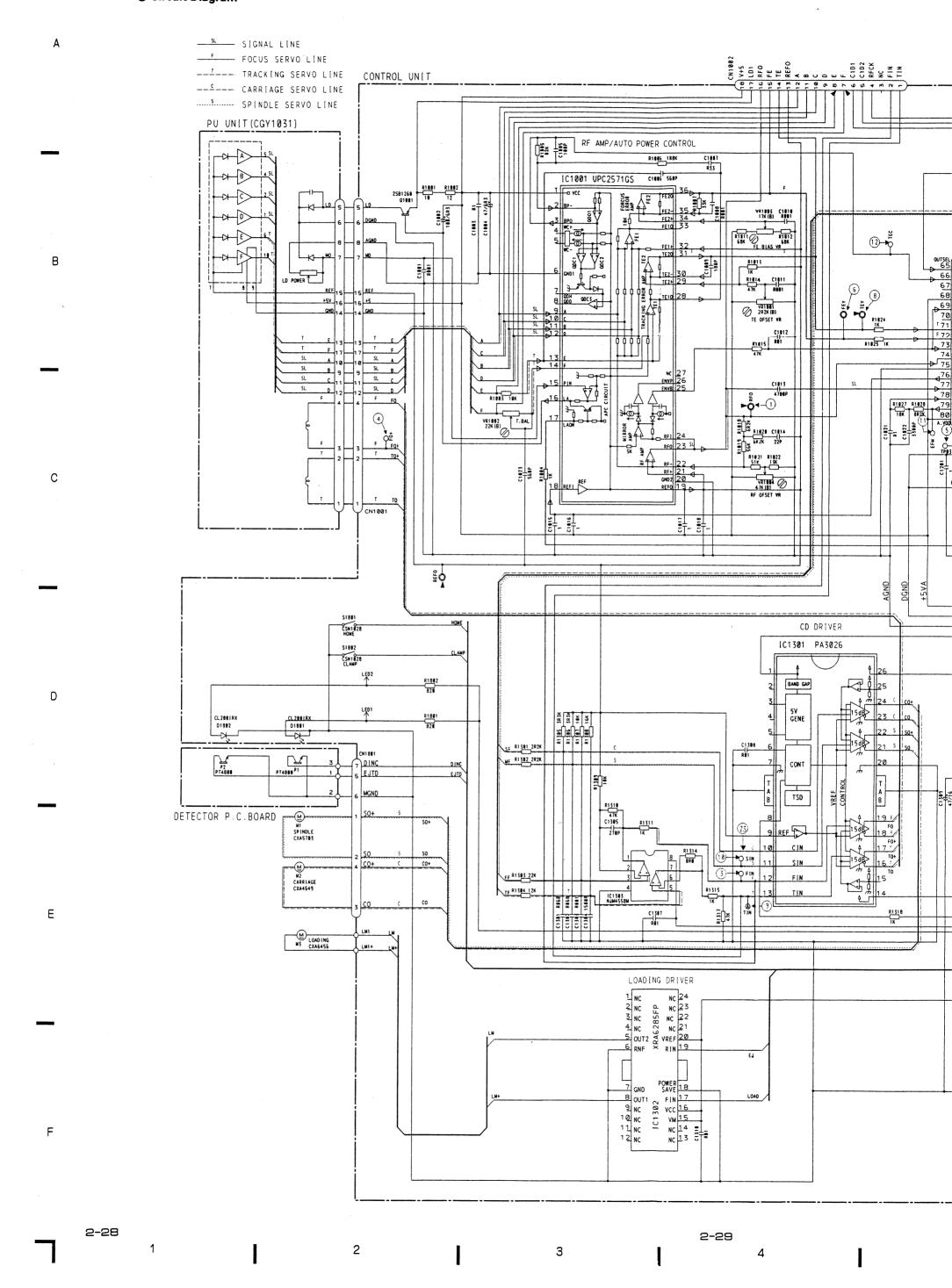
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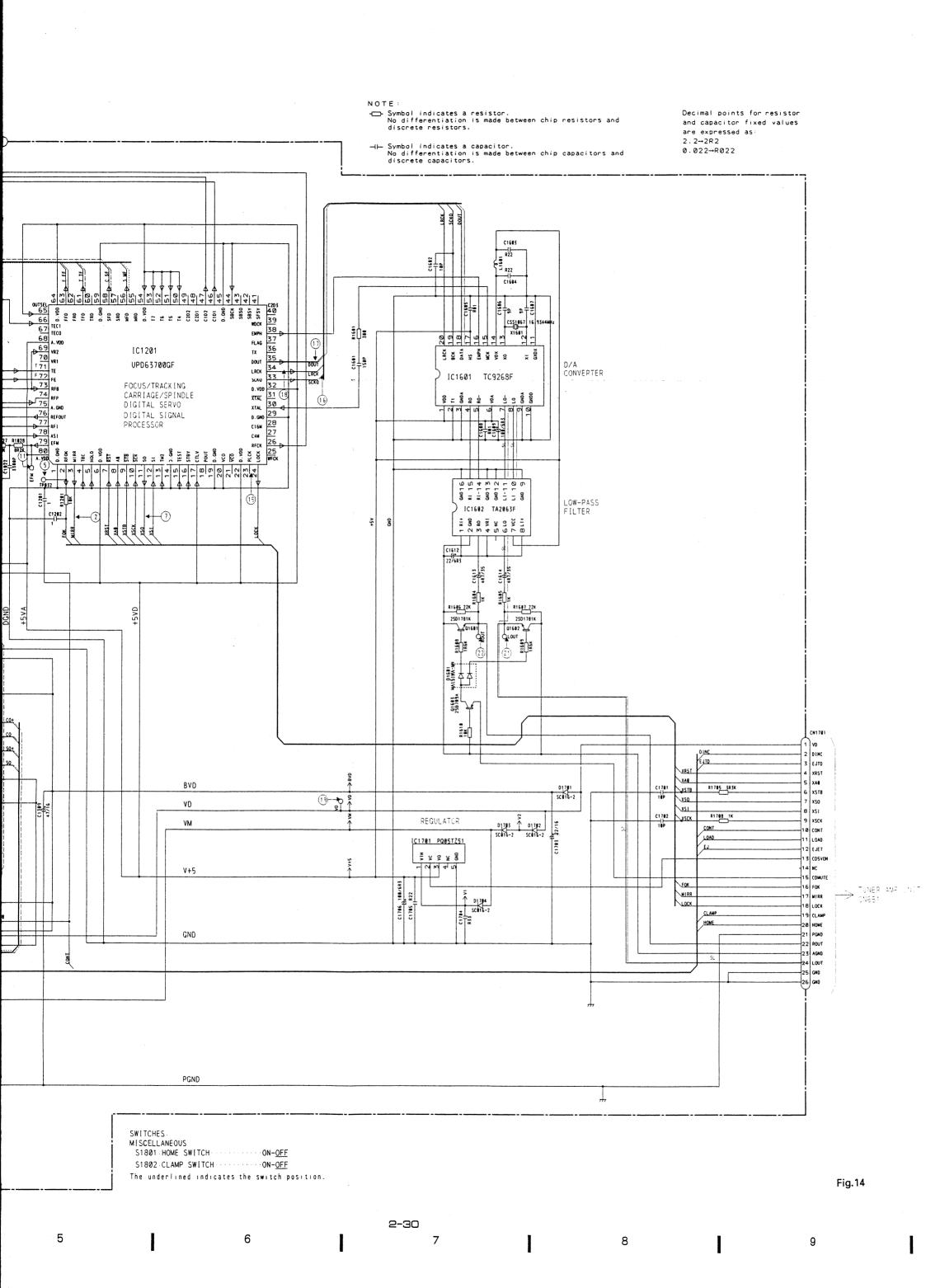
DEH-605RDS,505SDK,505,405SDK,405

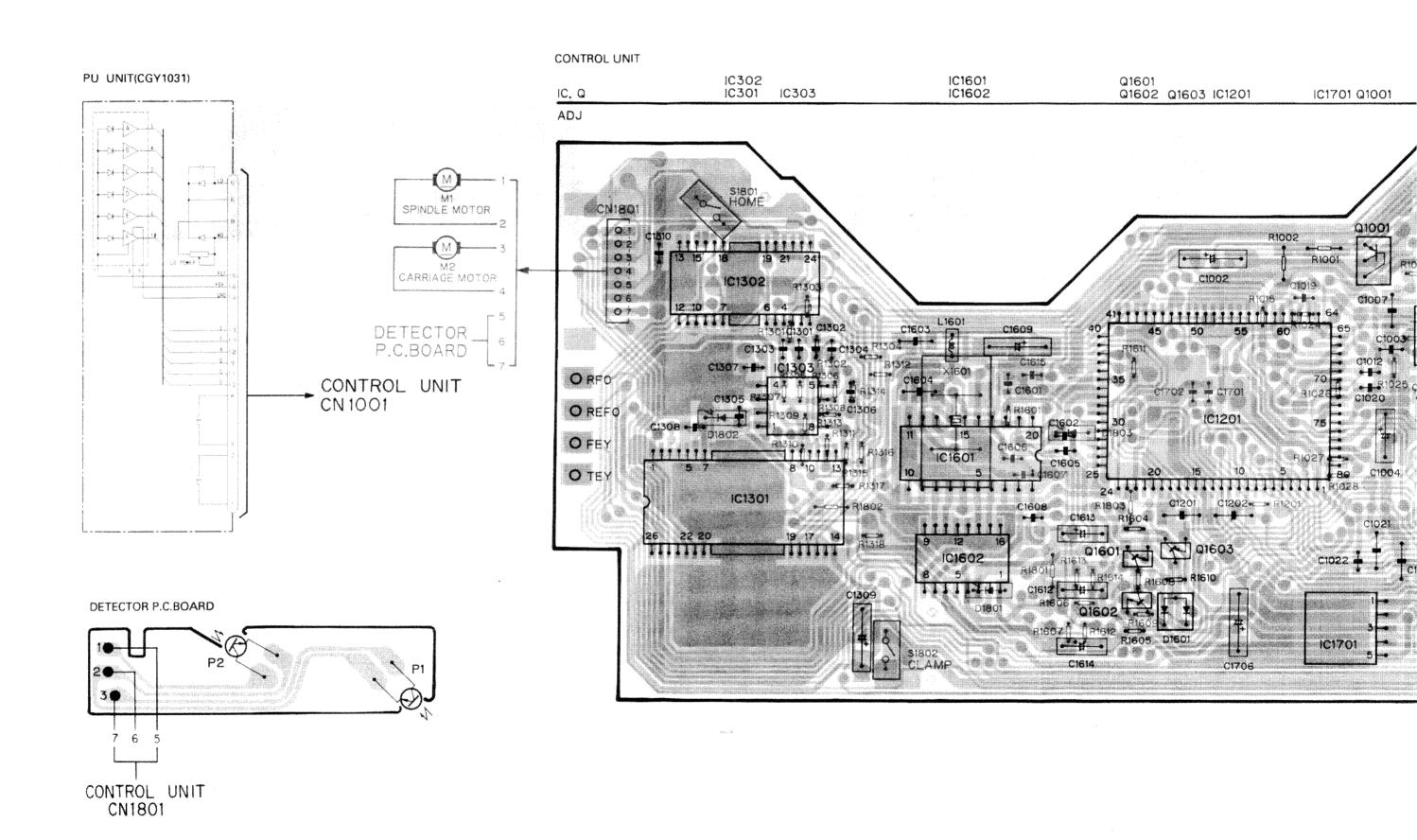
Pronees

4.4 CD MECHANISM MODULE

● Circuit Diagram

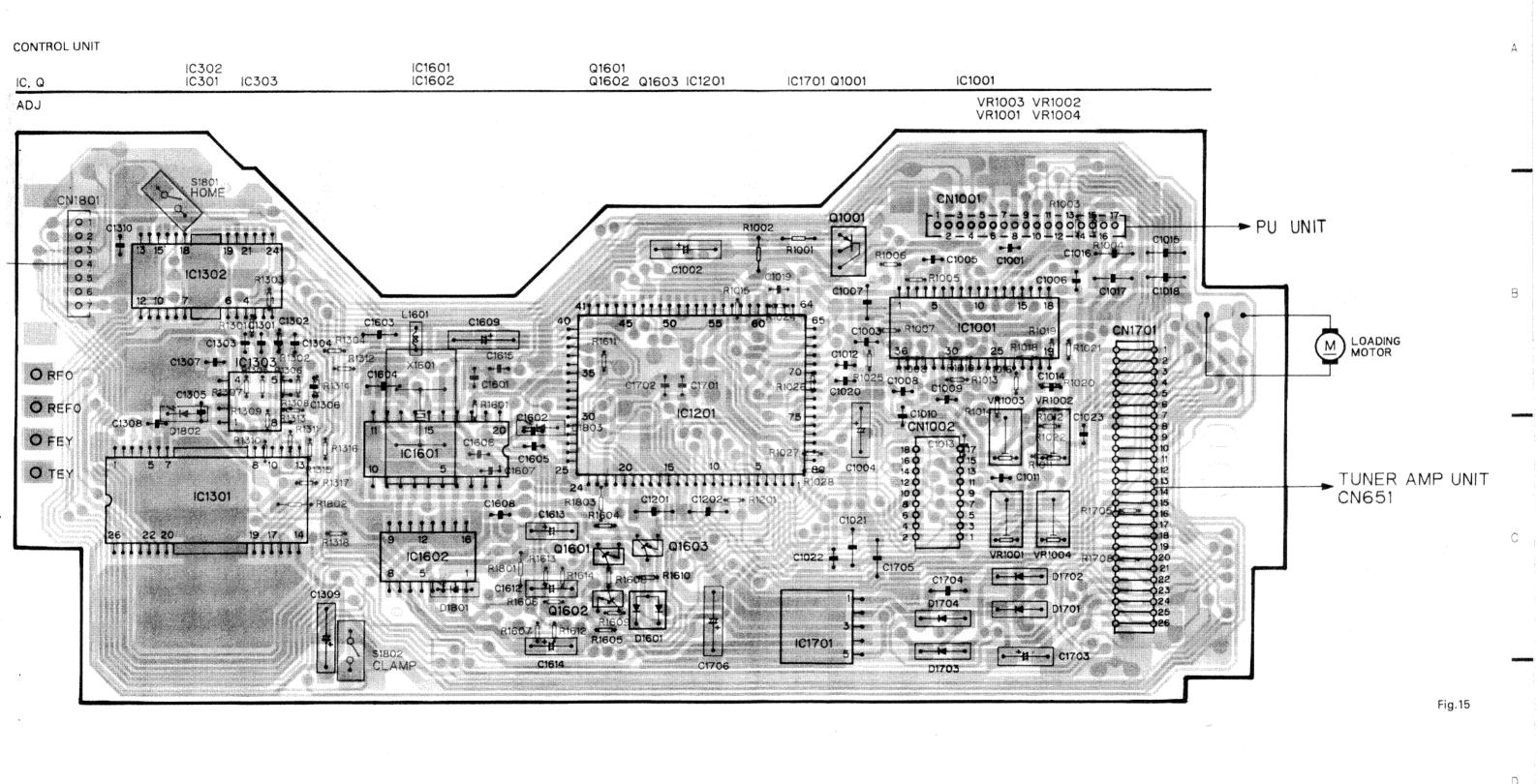






2-31 3 4 5 6

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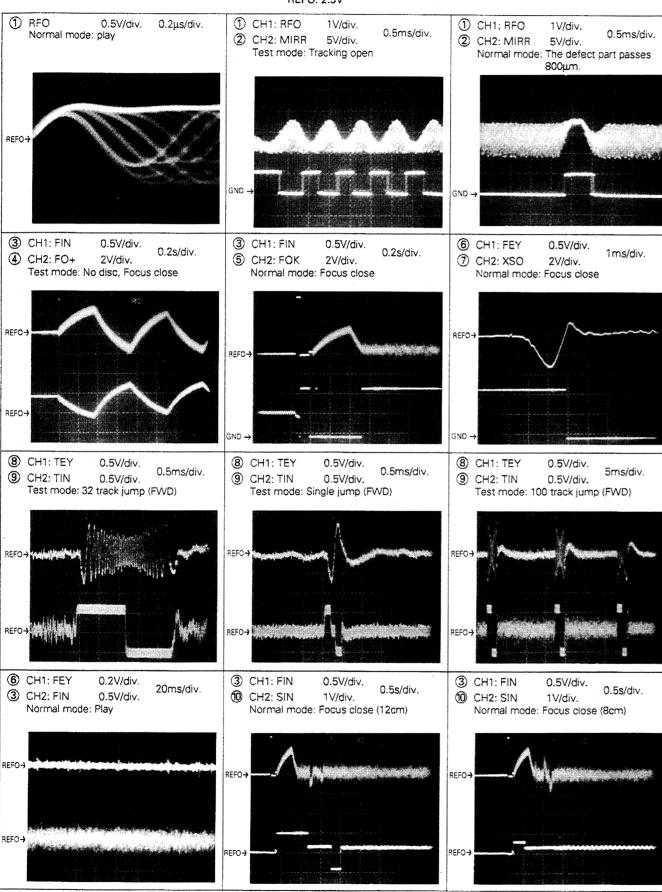
2-31

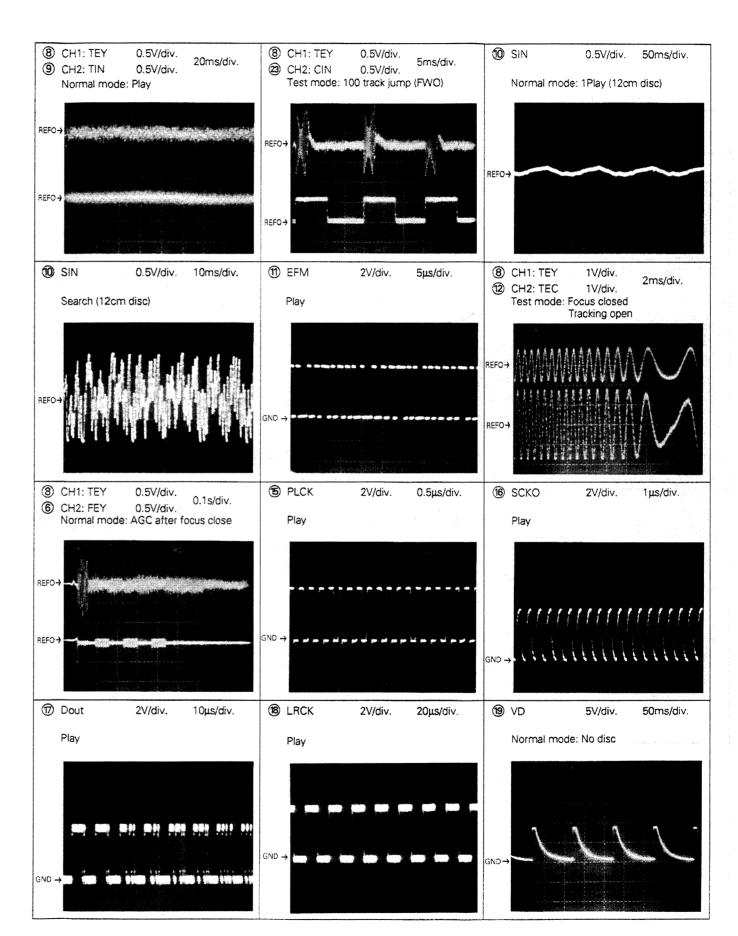
DEH-605RDS,505SDK,505,405SDK,405

Waveforms

Note: 1. The encircled numbers denote measuring pointes in the circuit diagram.

2. Reference voltage REFO: 2.5V

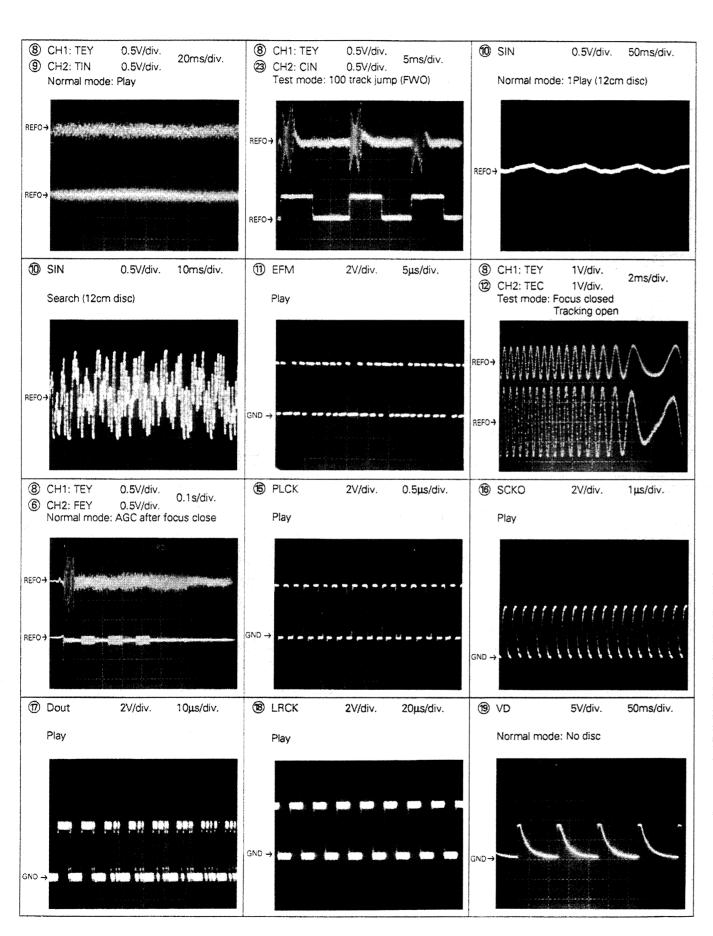


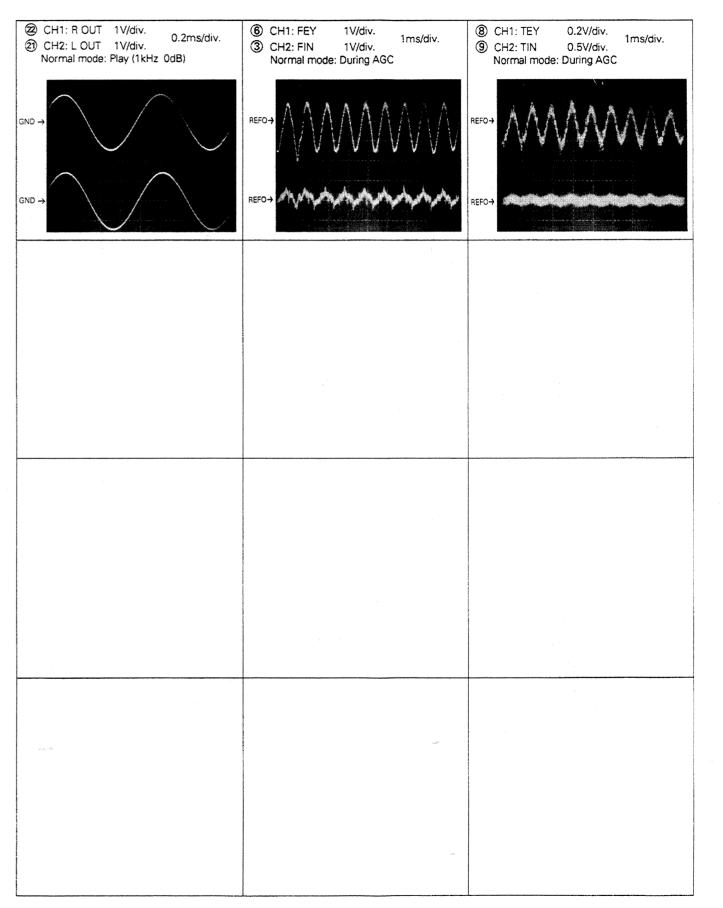


2 CH1: R OUT 1

② CH2: L OUT 1

Normal mode: Pla





2-35

4.5 FM/AM TUNER UNIT

Circuit Diagram

Symbol indicates a resistor.

No differentiation is made between chip resistors and discrete resistors.

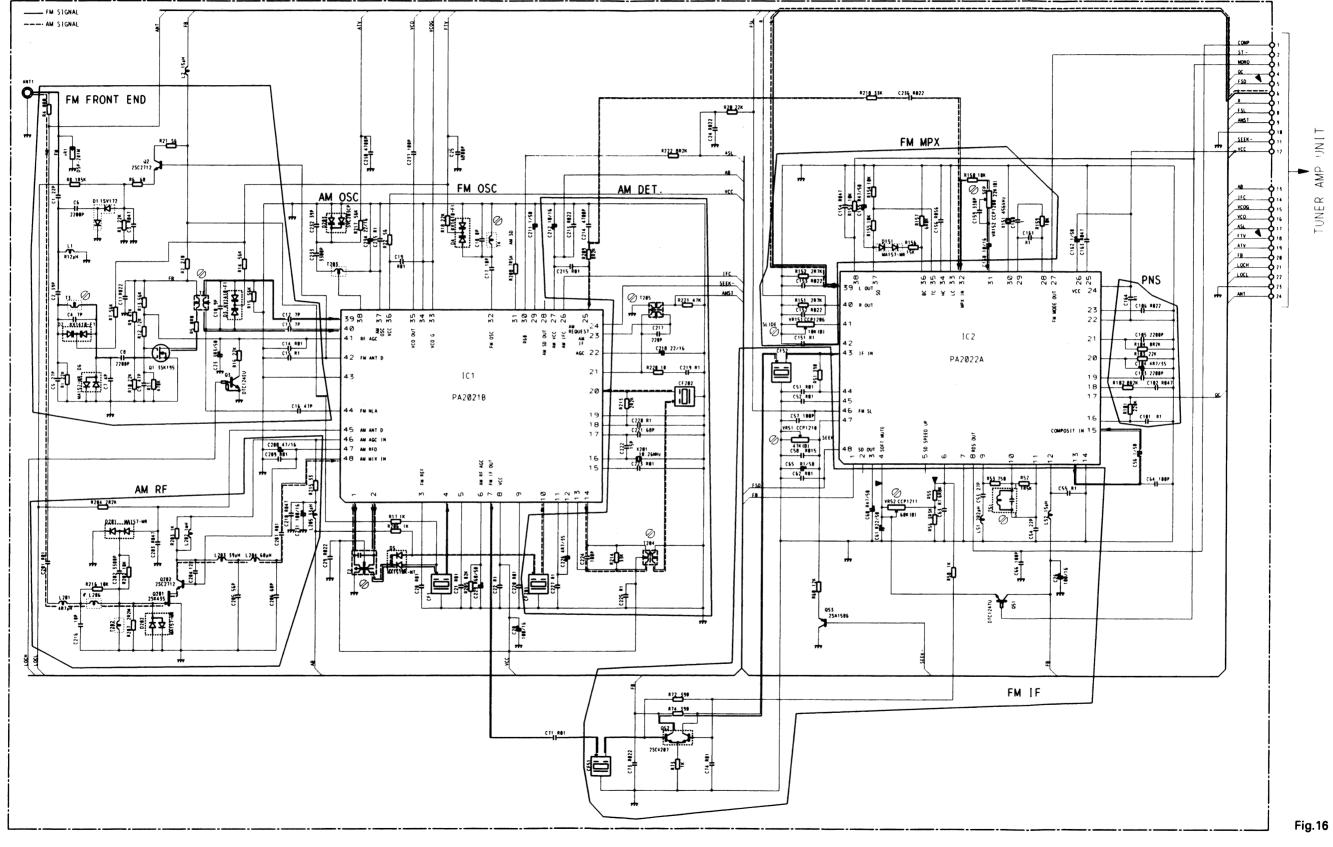
Decimal points for resistor and capacitor fixed values are expressed as 2.2→2R2

HE Symbol indicates a capacitor.

No differentiation is made between chip capacitors and discrete capacitors.

2.2→2R2

0.022→R022



2-38

2

2-37

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Connection Diagram

Q52 Q53 Q51 IC2 Q2 IC1 Q201 Q3 Q202 Q1 IC. Q VR52 T51 T4 T204 T205 VR51 VR151 VR152 ADJ T1 T2 T3

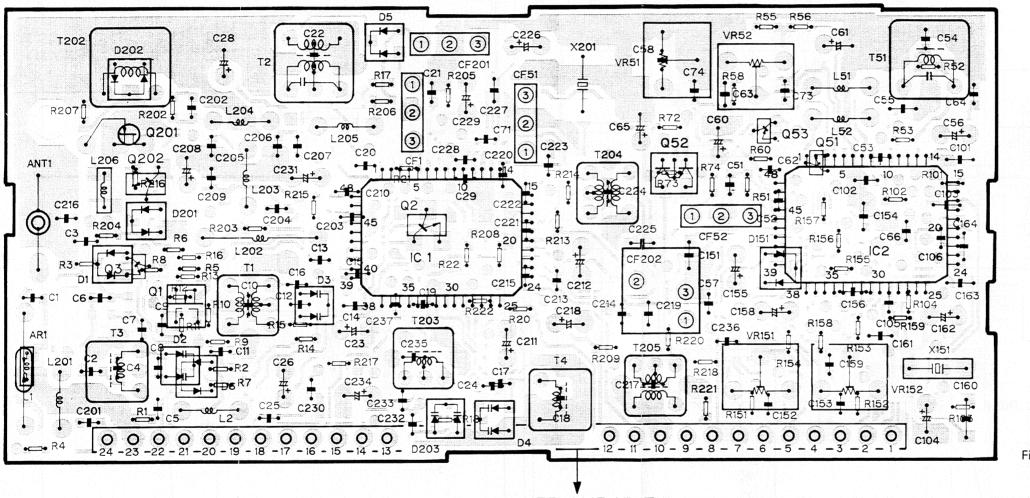


Fig.17

TUNER AMP UNIT

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4.6 KEY BOARD UNIT(DEH-605RDS)

KEY BOARD UNIT (CWX1661) Circuit Diagram TO TUNER AMP UNIT CN601 0 - 2 8 4 LCD901 CAW1228 C903 R01 X981:4.9152MHz 60 SEG13 В 59 SEG14 X1 Χ0 58 SEG15 57 SEG16 R983 2R2K(1/8W) VDD 56 SEG17 MOD0 6 55 SEG18 R981 2R2K (1/8W) KYDT MONO 54 SEG19 DPDT R902 2R2K R989 478 (1/8W) 53 SEG20 DPDT 9 52 SEG21 5911 5916 IC901 R918 478 (1/8W) REMIN 10 51 SEG22 PD6122A D902 | | SILM011 50 SEG23 BAND/REL 5 6 MA153-MC D981 SILMG 12 49 SEG24 KD4 13 48 SEG25 5902 5907 \$912 \$917 LCD DRIVER 47 SEG26 KD3 14 46 SEG27 KD2 15 SOURCE 3 Amber **KDT** 16 45 SEG28 CEL 1295 IL 985 CEL 1295 IL 986 44 SEG29 KS6 17 5913 \$918 5988 KS5 18 43 SEG30 KS4 19 42 SEG31 ILLM **EJECT** LOC.S P.SCAN KS3 20 41 SEG32 KSZ KST VDD ILLM COLOR - - - 5904 S9**8**9 5914 5919 SWITCH CEL1297 IL982 22 22 23 23 24 34 34 34 35 35 35 35 40 40 40 (Amber/Green) ۲<u>۰</u>۱ + Vol -TRACK+ TRACK-CEL1297 1L983 ___ Տ92**8**ີ 5985 S918 \$915 CEL1297 R915 470 R916 478 **3** UN2211 R917 478 R918 470 R81 R919 478 KYDT DPDT D 2-41

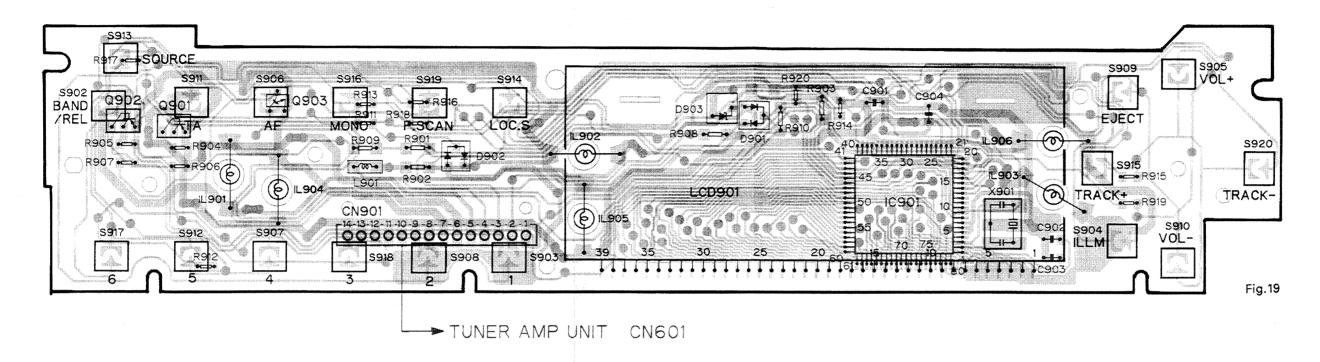
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Connection Diagram

IC, Q Q902 Q901 Q903 IC901



4.7 KEY BOARD UNIT(DEH-505SDK,505,405SDK,405)

Connection Diagram

IC921 IC922 SOURCE (3@⁽¹⁾ S913 S906 BAND/REL S915 3908 S916 5914 R934 R936 R935 LOC.S C921 P.SCAN •□•R930 9.4 •C>+R931 S907 00 11926 (9) •**6**••6•R928 (g) IL923 ÅR937 •—•**R93**2 R926 •**□•** •**□•** R927 •**□•**R**9**33 VOL-S909 5917 S910 S911 S**9**12 S905 Fig.20 TUNER AMP UNIT CN601

